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PROLIFERATION AND FEDERAL SERVICES

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UNITED STATES SENATE

AND THE

COMMITTEE ON INTERNATIONAL  
RELATIONS

AND

COMMITTEE ON SCIENCE AND  
TECHNOLOGY

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PROLIFERATION AND FEDERAL SERVICES,  
*Washington, D.C., March 8, 1978.*

Hon. ABRAHAM RIBICOFF,  
*Russell Senate Office Building,*  
*Washington, D.C.*

DEAR CHAIRMAN RIBICOFF: The Subcommittee on Energy, Nuclear Proliferation and Federal Services, as part of its oversight activities in connection with the problem of nuclear proliferation, requested that the Congressional Research Service prepare a bibliography giving a representative cross-section of books and major reports, articles in journals and magazines, and newspaper articles dealing with the topic of nuclear proliferation. This bibliography has been completed and is submitted herewith.

In view of the obvious and ongoing importance of the problem of nuclear proliferation and the need for wider dissemination of information and publications in this field, the reprinting of this bibliography will be of interest and use to all Members of Congress as well as to the public. I request and recommend, therefore, that it be published as a joint committee print by the Committee on Governmental Affairs, the House Committee on International Relations and the House Committee on Science and Technology.

Best regards.

Sincerely,

JOHN GLENN.



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## **FOREWORD**

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CONGRESS OF THE UNITED STATES,  
*Washington, D.C., March 16, 1978.*

The issue of nuclear proliferation is receiving increasing attention by both the Congress and the public as time goes on. It is an issue which does not admit of easy solutions or panaceas. That is not to suggest, however, that there is a lack of ideas concerning ways of alleviating various aspects of the issue. Each succeeding year has brought with it an increasing number of publications and reports on the subject. In order to make this literature more accessible, the Congressional Research Service has compiled a selected annotated bibliography of materials on nuclear proliferation which are comprehensive in terms of ideas and philosophy. The bibliography should be of use to all Members of Congress and other policymakers, scholars, students, and the public at large.

JOHN GLENN,  
*U.S. Senator.*

CLEMENT ZABLOCKI,  
*U.S. Representative.*

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Chairman, Subcommittee on Fossil and Nuclear Energy Research,  
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House of Representatives

DEAR CHAIRMAN GLENN, CHAIRMAN ZABLOCKI AND CHAIRMAN FLOWERS: The Congressional Research Service submits to you the enclosed bibliography on nuclear proliferation. It was compiled by Thomas W. Graham and Ridgely C. Evers of Reference Research Associates, Inc., of Palo Alto, California, to provide background information for the Congress as it oversees the carrying out of the Nuclear Nonproliferation Act of 1978, with the many international negotiating efforts mandated by that legislation. The bibliography is selective, annotated and cross-indexed. It offers good insight into the literature on nonproliferation. The work was funded by a small contract placed by the Service, with CRS senior specialist Warren H. Donnelly as the project manager.

We hope it will be a useful working tool for you and other Members of Congress as U.S. and world nonproliferation policies continue their evolution.

A handwritten signature in cursive ink, appearing to read "Gilbert Gude".  
GILBERT GUDE,  
Director, Congressional Research Service

## Bibliography

This selective bibliography covers the literature on nuclear proliferation through October 1977. It was compiled after a thorough search of approximately 2500 sources, which in turn were gathered from footnotes, other bibliographies, and normal search techniques. Each entry in this final version has been directly consulted for purposes of annotation and in order to insure the accuracy of the cite.

The bibliography was assembled on computer with the assistance of an experimental, specially-designed data sorting and indexing system; the output is permanently stored on magnetic tape, leaving open the option of future updating of the data.

The entries selected for inclusion were chosen because of their usefulness to both experts and novices in the field. Some entries are quite general, while others are highly technical or complex; an effort has been made to indicate this characteristic in the annotation.

The bibliography has been broken into two sections to further enhance its usefulness. The first section is arranged in five sub-categories: Books, Articles, Periodicals Consulted, Government Documents, and Papers and Other Sources. Within each sub-category, entries are arranged alphabetically according to author, and are numbered sequentially. Each entry is annotated, and contains a listing of the table of contents where appropriate.

The second major section is a cross-referenced subject index, in which the subject of nuclear proliferation has been broken down into 41 component areas (a listing of these areas may be found in the Table of Contents, below). Under each heading the entries in the bibliography that pertain are referenced. For example, under the heading "Overview" the first listing is a reference to:

Beaton, Leonard. Must Arms Spread.  
Chapters 1, 6

This reference is prefaced by "B 4", which means that the full entry may be found by looking at Book entry number 4. Therefore, by using the Subject Index first to locate the topic area, the user may then go directly to those sources which will

be most useful, up to and including specific parts or chapters where appropriate.

Codes used in the index are as follows: B - Book; A - Article; D - Government Document; O - Paper, Other Source.

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  - 2.1. Manhattan Project, Acheson-Lilienthal and Baruch Plans, Atoms for Peace
  - 2.2. Nuclear-Weapon-Free Zone Proposals
    - 2.2.1. History
    - 2.2.2. The Treaty for the Prohibition of Nuclear Weapons in Latin America (Treaty of Tlatelolco)
  - 2.3. The International Atomic Energy Agency
    - 2.3.1. History and Organization
    - 2.3.2. Safeguards Function
    - 2.3.3. Assistance Function
  - 2.4. Test-Ban Treaties
    - 2.4.1. Treaty Banning Nuclear Weapon Tests in the Atmosphere, in Outer Space and Under Water (Limited Test Ban Treaty)
    - 2.4.2. Treaty Between the United States of America and the Union of Soviet Socialist Republics on the Limitation of Underground Nuclear Weapon Tests (Threshold Test-Ban Treaty)

#### 2.4.3. Comprehensive Test-Ban Proposals

2.5. The Treaty on the Non-Proliferation of Nuclear Weapons (Non-Proliferation Treaty)

2.5.1. History, Negotiations, and Analysis

2.5.2. 1975 NPT Review Conference to Present

#### 2.6. Post-NPT Efforts

2.6.1. The London Suppliers' Conference

2.6.2. U.S. Efforts

2.6.3. International Initiatives

### 3. The Technology of Proliferation

#### 3.1. The Fuel Cycle

3.1.1. Existing Technology

3.1.2. Technology Trends

#### 3.2. Peaceful Nuclear Explosions

#### 3.3. Safeguards

#### 3.4. Terrorism

#### 3.5. Nuclear Weapons

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3.5.2. Overlap With Nuclear Power

### 4. Incentives and Disincentives

#### 4.1. Export of Nuclear Materials, Facilities, and Information

4.1.1. Atoms for Peace to the Non-Proliferation Treaty

4.1.2. Non-Proliferation Treaty through the Suppliers' Conference

4.2. The Economics of the Nuclear Fuel Cycle

4.3. Proliferation and International Security

4.3.1. Security Guarantees

4.3.2. No First-Use

4.3.3. Strategic Doctrine

4.3.4. Questions of Regional Stability

## BOOKS

## 1. Atlantic Council of the United States.

Nuclear Fuels Policy. (Report of the Atlantic Council's Nuclear Fuels Policy Working Group.) Washington, D.C.: Atlantic Council, 1976. 137 pp.

A policy analysis of the US nuclear fuel supply situation. Considers domestic and international energy demand, sources, and options, and includes an analysis of current and prospective nuclear reactor and breeder technologies. Recommends increased US nuclear power commitment, coupled with increased nonproliferation efforts.

Introduction and Summary; (Ch 1) Nuclear Energy - Who Needs It?; (Ch 2) Alternatives to Nuclear Energy; (Ch 3) Established Commercial Technology for Nuclear Steam Supply Systems in Use Today; (Ch 4) Prospective Technology for Future Nuclear Steam Supply Systems; (Ch 5) Nuclear Fuel for Light Water Reactors; (Ch 6) Demand and Supply of Nuclear Fuel for Light Water Reactors; (Ch 7) The Constraints on Meeting Nuclear Fuel Demand; (Ch 8) The Major Unresolved Issues and Options in Demand, Supply, and Use of Nuclear Fuels for Light Water Reactors; (Ch 9) Policy Conclusions and Recommendations; Appendices.

## 2. Bader, William B.

The United States and the Spread of Nuclear Weapons. (Published for the Center for International Studies, Princeton University.) New York: Pegasus, 1968. 176 pp.

A history of the United States' changing attitudes and policies towards nuclear proliferation up to the NPT. Contrasts US attitudes with those of some important non-nuclear states to test the proposition that international solutions are responsive to the problem of the spread of nuclear arms.

Introduction; (Ch 1) The United States and the Nuclear Dilemma - "In the Manner of Making War"; (Ch 2) Kennedy and Johnson: NATO and Geneva; (Ch 3) National Circumstances and Nuclear Status; (Ch 4) The

## BOOKS

Legacy and the Challenge; (Appendix 1) United States Draft Treaty of the NPT; (Appendix 2) Treaty for the Prohibition of Nuclear Weapons in Latin America; (Appendix 3) Treaty Banning Nuclear Weapons Tests in the Atmosphere, in Outer Space and Under Water; Bibliography.

## 3. Barnaby, Frank C. (ed.).

Preventing the Spread of Nuclear Weapons. (Pugwash Monograph I, from the first Pugwash Symposium, London, 1968.) London: Souvenir Press, 1969. 374 pp.

A collection of papers and discussions from the first Pugwash Conference on nuclear proliferation, focusing primarily on nuclear technology and safeguards, and the political consequences and aspects of proliferation. This conference had a major impact on the course of the NPT negotiations.

Part I: Introduction;Part II: Papers Presented to the Symposium

Section A: Technical Aspects: (Ch 1) Nuclear Reactors will Spread; (Ch 2) Comparative Economics of Nuclear Fuel and Conventional Fuel; (Ch 3) Civil Uses of Nuclear Explosives; (Ch 4) Gas Centrifuges for Cheaper Isotope Separation; (Ch 5) Technical Aspects of the International Atomic Energy Agency Safeguards System; (Ch 6) On the Development of Diversification-Proof Nuclear Breeder Reactors;

Section B: Safeguards and Guarantees: (Ch 1) Safeguards and Related Arms Control Problems; (Ch 2) Verification and Security Guarantees: Lessons from the Past; (Ch 3) The Problem of Guarantees; (Ch 4) A Loophole to be Closed in the Soviet-American Draft Non-Proliferation Treaty; (Ch 5) Safeguards: The Long-Term Prospects; (Ch 6) The Problem of Safeguards with Special Reference to the German Democratic Republic;

Section C: Political Aspects: (Ch 1) The Spread of Nuclear Weapons: Lessons from the Past; (Ch 2) Methods of Furthering the World-Wide Acceptance of a Non-Proliferation Treaty; (Ch 3) Non-Proliferation and the

## BOOKS

Arms Race; (Ch 4) The Role of Reactor Exporting Countries; (Ch 5) The Soviet-American Draft Non-Proliferation Treaty: Will It Work?; (Ch 6) Some International Legal Aspects Relating to the Participation of the Two German States in a Non-Proliferation Treaty;  
Part III: Summary of the Discussions.

## 4. Beaton, Leonard.

Must Arms Spread. Middlesex, England: Penguin Books, Ltd., 1966. 146 pp.

Essays from an International Institute for Strategic Studies symposium that examine the possibility of removing the incentives or controlling the means of proliferation.

(Ch 1) The Problem; (Ch 2) The Technical Requirements; (Ch 3) What Countries Want; (Ch 4) The Probable Rate of Proliferation; (Ch 5) Plutonium; (Ch 6) An Anti-Proliferation Strategy; (Ch 7) Conclusion.

## 5. Blackett, P.M.S.

Military and Political Consequences of Atomic Energy. London: Turnstile Press, 1948. 216 pp.

Analysis of the impact of the atomic bomb on military strategies and international relationships. Examines and critiques the Baruch and Acheson-Lilienthal plans, and anticipates the need for some form of international inspection to control nuclear energy.

## 6. Boskey, Bennet; Willrich, Mason (eds.).

Nuclear Proliferation: Prospects for Control. New York: Dunellen Publishing Co., 1970. 191 pp.

A general introduction to the proliferation issue and the possibilities and problems of the NPT as foreseen by a panel on nuclear energy and world

## BOOKS

order of the American Society of International Law.

Part I: Nuclear Weapons Proliferation: (Ch 1) Global Dimensions - A.S. Fisher; (Ch 2) Constraints on the Nuclear Arms Race - G.W. Rathjens, Jr.; (Ch 3) Horizontal Proliferation of Nuclear Weapons - G. Bunn;

Part II: Atoms for Peace: (Ch 4) Military Potential of Civilian Nuclear Power - V. Gilinsky; (Ch 5) Technical Capabilities of Safeguards - H. Scoville, Jr.; (Ch 6) EURATOM and the IAEA - L. Scheinman; (Ch 7) Assurance of International Safeguards - J.G. Palfrey; (Ch 8) Plowshare Evaluation - D.B. Brooks and H.R. Meyers; (Ch 9) Plowshare Control - B.G. Bechhoefer;

Part III: Global Security: (Ch 10) Threat, Reassurance, and Nuclear Proliferation - J.I. Coffey; (Ch 11) Renunciation of Nuclear Weapons Use - R.A. Falk;

Appendices.

7. Brooks, David B.; Krutilla, J. V.

Peaceful Uses of Nuclear Explosives: Some Economic Aspects. (Resources for the Future) Washington, D.C.: John Hopkins Univ. Press, 1969. 47 pp.

An economic evaluation of proposed applications of peaceful nuclear explosives, including safety considerations and the problems of scaling up engineering data on nuclear explosives to meet the demands of unprecedented project sizes.

8. Chayes, Abram; Lewis, W. Bennett, eds.

International Arrangements for Nuclear Fuel Reprocessing. Cambridge, Mass.: Ballinger Publishing Co., 1977. 245 pp.

The articles in this volume, which were prepared as papers for a US-Canadian Pugwash symposium on International Arrangements for the Nuclear Fuel Cycle held in May 1976, focus primarily on technical questions and institutional arrangements relating to nuclear fuel

## BOOKS

reprocessing.

Part 1 - General Considerations: (Ch 1) The Nuclear Fuel Cycle and Nuclear Proliferation - G.W. Rathjens and A. Carnesale; (Ch 2) Why Reprocess? - T. Greenwood;

Part 2 - Technical Aspects: (Ch 3) Technical and Economic Considerations in Fuel Reprocessing - S.R. Hatcher and W.W. Morgan; (Ch 4) The Simple, Uncertain Economics of Multinational Reprocessing Centers - M. Sharefkin; (Ch 5) Safeguarding Reprocessing Facilities: The Impact of Multinationalization - L. Scheinman; (Ch 6) The Impact of International Safeguards Arrangements Upon Nuclear-Fuel-Cycle Operation - C. Beets; (Ch 7) Safety Considerations of Nuclear-Fuel Reprocessing Plants - F.R. Farmer; (Ch 8) Regional Fuel-Cycle Centers: Technical and Operational Considerations - P.J. Dyne, R.B. Lyon, and D.R. McLean; (Ch 9) Storing Radioactive Wastes in Colled Pebbles - W.B. Lewis; (Ch 10) Physical Security in Multinational Nuclear-Fuel-Cycle Operations - M. Willrich;

Part 3 - Institutional Arrangements: (Ch 11) Institutional Arrangements for a Multinational Reprocessing Plant - C.B. Smith and A. Chayes; (Ch 12) Some Experiences in Formation and Operation of Multinational Uranium Enrichment and Fuel-Reprocessing Organizations - C. Allday; (Ch 13) Role of the IAEA in Multinational Fuel-Cycle Centers - D.A.V. Fischer; (Ch 14) Nuclear Futures for Sale: Issues Raised by the West German-Brazilian Nuclear Agreement - W.W. Lowrance; (Ch 15) Relevance of Intelsat Experience for Organizational Structure on Multinational Nuclear Fuel Facilities - E.B. Skolnikoff;

Part 4 - Political Setting: (Ch 16) International Arrangements for Nuclear-Fuel-Cycle Facilities: The Politics of the Problem - W. Epstein.

## BOOKS

9. Committee for Economic Development.  
Nuclear Energy and National Security. Washington,  
D.C.: Committee for Economic Development, 1976. 80 pp.

A statement by the Research and Policy Committee  
of the CED, providing an analysis of US nuclear  
energy policies. Argues that the US cannot  
unilaterally halt proliferation, and makes a  
series of policy recommendations based on that  
conclusion.

10. Dean, Arthur H.  
Test Ban and Disarmament: The Path of Negotiation.  
New York: Harper and Row, 1966. 153 pp.

Concise, analytical description of the course of  
the treaty negotiations written by one of those  
involved.

(Ch 1) Introduction; (Ch 2) Disarmament  
Diplomacy; (Ch 3) Verification and  
Inspection; (Ch 4) Disarmament and Arms  
Control; (Ch 5) Nuclear Test-Ban Treaty; (Ch  
6) Points of Emphasis; (Ch 7) The Urgent  
Future.

11. Dunn, Lewis A.; Kahn, Herman.  
Trends in Nuclear Proliferation 1975-90: Projections,  
Problems, and Policy Options. (Prepared for US ACDA)  
Croton-on-Hudson, N.Y. Hudson Institute. 1976. 195pp.

12. Epstein, William.  
The Last Chance: Nuclear Proliferation and Arms  
Control. New York: The Free Press, 1976. 341 pp.

A comprehensive survey and analysis of the  
various problems relating to the  
non-proliferation of nuclear weapons, and a  
critique on the future of the "non-proliferation  
regime."

## BOOKS

(Ch 1) The Basic Dilemma; (Ch 2) Atoms for War: The Proliferation of Nuclear Weapons; (Ch 3) Atoms for Peace: The Proliferation of Nuclear Power Reactors and Plutonium; (Ch 4) Steps Leading to the Non-Proliferation Regime; (Ch 5) The Making of the Non-Proliferation Treaty (The NPT); (Ch 6) Analysis of the Non-Proliferation Treaty; (Ch 7) The Politics of Nuclear Non-Proliferation; (Ch 9) The "Forgotten Conference" of the Non-Nuclear States; (Ch 10) Has the Security of Non-Nuclear States Been Ensured?; (Ch 11) How Good Are International Safeguards?; (Ch 12) Have the Peaceful Uses of Nuclear Energy Been Facilitated?; (Ch 13) What About Peaceful Nuclear Explosions?; (Ch 14) Stopping the Nuclear Arms Race?; (Ch 15) Nuclear-Free Zones; (Ch 16) The Nth-Country Problem Again: India's Nuclear Explosion; (Ch 17) The Danger of Proliferation to Additional States; (Ch 18) Failure at the NPT Review Conference; (Ch 19) The Danger of Proliferation to Terrorists and Criminals; (Ch 20) Man Is an Endangered Species;

## 13. Fischer, Georges.

The Non-Proliferation of Nuclear Weapons. David Willey (trans.). London: Europa Publishers, 1971. 229 pp.

Reviews the origins, negotiation, and provisions of the NPT. Examines apparent trend in arms control efforts from early, comprehensive efforts to later, discreet-issue negotiations. Also gives detailed analysis of the NPT, and its attendant control machinery.

Introduction; (Ch 1) Origins; (Ch 2) The Problem of Non-Proliferation; (Ch 3) The Drafting of the Treaty; (Ch 4) The Ban on the Transfer, Receipt, and Manufacture of Nuclear Weapons; (Ch 5) Policing the Ban; (Ch 6) Peaceful Uses of Nuclear Energy; (Ch 7) Final Clauses; (Ch 8) Security Guarantees; (Ch 9) Collateral Measures; Conclusion; Appendices.

## BOOKS

14. Gallois, Pierre.

The Balance of Terror: Strategy for the Nuclear Age. (R. Howard, trans.) Boston: Houghton-Mifflin Company, 1961. 234 pp.

Suggests that a world with many nuclear-weapons states is a desirable condition, termed multiple mutual deterrence. Author is a former French general and war theorist.

15. Garcia-Robles, Alfonso.

The Denuclearization of Latin America. (M. Urquidi, trans.) New York: Carnegie Endowment for International Peace, 1967. 167 pp.

A collection of speeches by the author (Chairman of the Preparatory Commission for the Denuclearization of Latin America) and other documents. Published in preparation for the final meeting of the Commission.

16. Green, Harold P.; Rosenthal, Alan.

Government of the Atom: The Integration of Powers. New York: Atherton Press, 1963. 273 pp.

A study of the Joint Committee on Atomic Energy, and its use of power in relation to both the Executive and the Congress as a whole. Concludes that the JCAE probably streamlined the legislative process, and exercised considerable power in what could have been a solely Executive branch policy area, but did so at the expense of comprehensive public debate and overall Congressional examination of nuclear policy issues.

17. Greenwood, Ted; Feiveson, Harold A.; and Taylor, Theodore B.

Nuclear Proliferation: Motivations, Capabilities, and Strategies for Control. New York, McGraw-Hill Book Co., 1977. 211 pp.

## BOOKS

This Council on Foreign Relations "1980's Project" volume has divided its analysis into two areas: the question of motivations (Ch 1); and the question of capabilities (Ch 2). Each of the chapters examines its topic in both historical and dynamic contexts.

(Introduction) Nuclear Proliferation and the 1980's Project - D.C. Gompert; (Ch 1) Discouraging Proliferation in the Next Decade and Beyond - T. Greenwood; (Ch 2) Alternative Strategies for International Control of Nuclear Power - H. Feiveson and T.B. Taylor.

## 18. Guhin, Michael A.

Nuclear Paradox: Security Risks of the Peaceful Atom. Washington, D.C.: American Enterprise Institute for Public Policy Research Foreign Affairs Study, v. 32, 1976. 77 pp.

This essay examines recent (1976) US proposals and policy courses which could be pursued at an international level to reduce the national and sub-national risks of the peaceful atom. Examines a few basic principles for approaching the problem of guarding against the dangers of proliferation while advancing the benefits of the atom.

(Ch 1) Previous Rounds with the Nuclear Dilemma; (Ch 2) Perspectives on an Expanding Paradox; (Ch 3) Approaches to Reduce Security Risks; (Ch 4) Further Proposals and Policy Issues.

## 19. Hewlett, Richard G.; Anderson, Oscar E. Jr.

The New World, 1939-1946: A History of the US Atomic Energy Commission - Volume I. University Park, Pennsylvania: Pennsylvania State University Press, 1962. 766 pp.

A comprehensive, official history of the wartime development of the atomic bomb, written by the Historical Advisory Committee of the US Atomic Energy Commission, focusing on domestic

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institutions, personalities, and events leading up to the development and use of the bomb.

(Ch 1) The Inheritance; (Ch 2) In the Beginning; (Ch 3) Exploring the Routes to the Weapon; (Ch 4) Commitment; (Ch 5) Race for the Bomb: Uranium 235; (Ch 6) Race for the Bomb: Plutonium; (Ch 7) A Laboratory Set on a Hill; (Ch 8) An Uneasy Partnership; (Ch 9) Race for the Bomb: Homestretch; (Ch 10) The Quest for Postwar Planning; (Ch 11) Terrible Swift Sword; (Ch 12) Controlling the Atom: Search for a Policy; (Ch 13) Controlling the Atom: From Policy to Action; (Ch 14) The Legislative Battle; (Ch 15) International Control: Last Best Hope; (Ch 16) International Control: No Flesh for the Spirit; (Ch 17) A Time of Transition; Sources; Notes; Appendices; (1) The McMahon Bill (S. 1717); (2) Financial Data.

20. Hewlett, Richard G.; Duncan, Francis.

Atomic Shield, 1947-1952: A History of the US Atomic Energy Commission, Volume II. University Park, Pennsylvania: Pennsylvania State University Press, 1969. 718 pp.

This is the second volume in the series by Hewlett on the history of the US Atomic Energy Commission. See the cite for Volume I (previous entry) for description.

(Ch 1) The Terrible Responsibility; (Ch 2) Uncertain Mandate; (Ch 3) First Venture; (Ch 4) The Peaceful Image; (Ch 5) Call to Arms; (Ch 6) Nuclear Arsenal; (Ch 7) Atomic Power: Quandry and Quagmire; (Ch 8) Research: New Approaches to a New Age; (Ch 9) Cooperation with the British: Untangling the Alliance; (Ch 10) Cooperation with the British: Anxiety and Tension; (Ch 11) The Art of Administration; (Ch 12) Decision of Destiny; (Ch 13) Twilight Zone, February-June 1950; (Ch 14) Changing Patterns of Administration; (Ch 15) Science: Shield of the Free World?; (Ch 16) Quest for the Super; (Ch 17) Forging the Atomic Shield; (Ch 18) End of the Quest; Sources; Notes; Appendices.

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21. Hodgetts, J.E.

Administering the Atom for Peace. New York: Atherton Press, 1964. 184 pp.

A description of the structure and function of the various national and international agencies, both here and abroad, whose function is to administer nuclear energy. Useful largely in an historical context, given the relatively early date of publication.

(Ch 1) Introduction; (Ch 2) The Need for Special Atomic-Energy Authorities; (Ch 3) Organizing a Peaceful Atomic-Energy Program; (Ch 4) Provision of Nuclear Materials; (Ch 5) Research and Development; (Ch 6) Regulation; (Ch 7) Co-ordination; (Ch 8) Accountability.

22. Jacobson, Harold K.; Stein, Eric.

Diplomas, Scientists, and Politicians: The United States and the Nuclear Test Ban Negotiations. Ann Arbor: University of Michigan Press, 1966. 538 pp.

An exhaustive study of the development and negotiation of the US-USSR Limited Test Ban Treaty of 1963. Concludes from the influence of technology on international negotiations and organizational structures that technologies can create critical control problems whose control must be primarily political and only secondarily technical in nature.

23. Jensen, Lloyd.

Return from the Nuclear Brink: National Interests and the Nuclear Non-Proliferation Treaty. Lexington, Massachusetts: Lexington Books, 1973. 150 pp.

An examination of the positions taken by various states during the long set of negotiations leading to the signing of the NPT (1 July 1968) and its eventual entry into force (5 March 1970).

Chronology of Important Events;  
Introduction; (Ch 1) National Security

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Interests; (Ch 2) Political Objectives and the Treaty; (Ch 3) Economic Interests and the Treaty; (Ch 4) National Interest and Treaty Position; (Ch 5) The Nuclear Threshold State and the NPT; (Ch 6) Conclusions.

24. Kertesz, Stephen D. (ed.).

Nuclear Non-Proliferation in a World of Nuclear Powers. Notre Dame: University of Notre Dame Press, 1967. 130 pp.

Papers delivered at and conclusions from the regional Notre Dame American Assembly on nuclear proliferation. Included in the Appendices are addresses and papers expressing the official US, Soviet, Italian, German, and French positions on the draft NPT, which was finalized in 1968 along the lines recommended by the Assembly in this work.

Preface - S.D. Kertesz; (Ch 1) Address - T.M. Hesburgh; (Ch 2) A Soviet View on Nuclear Proliferation - V.I. Trifonov; (Ch 3) Nuclear Spread: The Setting of the Problem - J.R. Schlesinger; (Ch 4) On the Non-Dissemination of Nuclear Weapons - A.K. Konopacki; (Ch 5) Issues Involved in a Non-Proliferation Agreement - A.S. Fisher; (Ch 6) The Quest for Peace - J. Brademas; (Ch 7) Final Report of March 18, 1967; Appendices.

25. Lawrence, Robert M.; Larus, Joel (eds.).

Nuclear Proliferation Phase II. (Published for the National Security Education Program.) Lawrence, Kansas: University of Kansas, 1974. 256 pp.

A collection of three essays which examine the post-NPT prospects for proliferation, and six essays written by authorities from six countries concerning each country's position on proliferation, acceptance or rejection of the NPT, and security situation.

(Ch 1) A Historical Review of Nuclear

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Weapons Proliferation and the Development of the NPT - R.M. Lawrence and J. Lazarus; (Ch 2) Nuclear Technology and Weapons - W. Van Cleave; (Ch 3) Australia: Recent Ratification - T.B. Millar; (Ch 4) The Federal Republic of Germany: Constraining the Inactive - U. Nerlich; (Ch 5) India: Keeping the Option Open - K. Subrahmanyam; (Ch 6) Israel: From an Option to a Bomb in the Basement? - A. Haselkorn; (Ch 7) Japan: Quest for Strategic Compatibility - S. Kato; (Ch 8) The Republic of South Africa: Proliferation and the Politics of "Outward Movement" - J.E. Spence; (Ch 9) Implications of Phase II Proliferation for the United States - R.M. Lawrence and J. Lazarus.

26. Leachman, Robert B.; Althoff, Philip (eds.).  
Preventing Nuclear Theft: Guidelines for Industry and Government. New York: Praeger Publishers, 1972. 377 pp.

A volume of prepared papers and discussion summaries from a symposium on implementing nuclear safeguards. (Held 25-27 October 1971, sponsored by the Diversion Safeguards Program, Kansas State University.)

Part I: Safeguards Overview: (Ch 1) Keynote Remarks - C. Hosmer; (Ch 2) International Safeguards - R. Rometsch; (Ch 3) US Safeguards Overview - D.L. Crouson;  
Part II: National Safeguards Systems: (Ch 4) Nuclear Safeguards Policy: A Case Study in Regulation - D. Brady; (Ch 5) Setting New Standards for Safeguarding the Peaceful Atom - C.D.W. Thornton; (Ch 6) US National Safeguards System: An Industrial View - A.E. Schubert; (Ch 7) Panel on National Safeguards Systems;  
Part III: International Safeguards Systems: (Ch 8) Political Aspects of NPT Safeguards - L. Scheinman; (Ch 9) Euratom Safeguards - E. Jacchia; (Ch 10) International Safeguards: A Study of the Influence of Technology on Political Decisions - D. Zollman; (Ch 11) Panel on International Safeguards Systems;  
Part IV: Thefts, Criminology, and

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Jurisdictions: (Ch 12) International Inspection of US Industry - D.J. Haymon; (Ch 13) Social Psychological Studies of the Safeguards Problem - L. Rappoport and J.D. Pettinelli; (Ch 14) Judgement in Safeguards Activities - F. Morgan; (Ch 15) Who Are the Enemy? - J.E. Lovett; (Ch 16) The Need for a Systems Approach to Preventing Theft of Special Nuclear Materials - T.B. Taylor;

Part V: The Fuel Cycle and Measurements: (Ch 17) Nuclear Detection Methods - N.C. Rasmussen; (Ch 18) The Industrial Safeguards Problems Through the Fuel Cycle - R.J. Jones; (Ch 19) The Adaptability of Fissile Materials to Nuclear Explosives - D.B. Hall; (Ch 20) Real Problems, Real Solutions - J.H. Menzel; (Ch 21) The IAEA Catalog for Portable Safeguards Techniques - L.A. Kull, G.M. Reynolds, and J.R. Beyster;

Part VI: Optimizing Inspections: (Ch 22) Application of the Theory of Games to Safeguards Problems - R. Avenhaus; (Ch 23) Studies of Safeguards as a Systems Problem - F.A. Constanzi, F.A. Tillman, and S. Chatterjee; (Ch 24) Summary Remarks.

## 27. Lepper, Mary M.

Foreign Policy Formulation: A Case Study of the Nuclear Test Ban Treaty of 1963. (Merrill Political Science Series.) Columbus, Ohio: Charles E. Merrill Publishing Company, 1971. 191 pp.

Examines the effects of public opinion, interest groups, the Executive, and Senate committees and hearings on the negotiation of the Limited Test Ban Treaty. Finds that external forces were a significant factor in shaping US policy vis-a-vis the negotiations.

## 28. MacAvoy, Paul W.

Economic Strategy for Developing Nuclear Breeder Reactors. Cambridge, Massachusetts: MIT Press, 1969. 204 pp.

Detailed economic cost/benefit analysis of

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different options for breeder reactors. Concludes by proposing the development of a mix of breeder reactor types, rather than focusing on one.

(Ch 1) The Questions in Future Reactor Research and Economic Approaches to Answers; (Ch 2) The Costs of Fast Breeder Research and Development Programs; (Ch 3) Initial Forecasts of the Benefits from Breeder Reactors; (Ch 4) The Economic Fast Breeder Development Program.

## 29. Marks, Anne W. (ed.).

NPT: Paradox and Problems. Washington, D.C. Published by The Arms Control Association and The Carnegie Endowment for International Peace, 1975. 106 pp.

This volume contains recommendations and papers from an international, pre-NPT Review Conference meeting of the Arms Control Association and the Carnegie Endowment for International Peace, held in Divonne, France, in September 1974.

Part 1 - Report of the Conference: Recommendations and Conclusions;

Part 2 - A Postscript on the Nuclear Fuel Cycle;

Part 3 - Working Papers for the Conference:

(Ch 1) Non-Proliferation Treaty: Status and Prospects - I. Smart; (Ch 2) The Indian Nuclear Test and the NPT - J. Goldblat; (Ch 3) India's Approach Toward Nuclear Energy and Non-Proliferation of Nuclear Weapons - V.C. Trivedi; (Ch 4) Peaceful Nuclear Explosions: An Invitation to Proliferation - H. Scoville, Jr.; (Ch 5) Nuclear Power Development and Nuclear Weapon Proliferation - M. Willrich; (Ch 6) NPT Article VI: How Have the Parties Met Their Obligations? - W. Epstein.

## 30. Marwah, Onkar; Schulz, Ann (eds.).

Nuclear Proliferation and the Near-Nuclear Countries. Cambridge, Massachusetts: Ballinger Publishing Co., 1975. 305 pp.

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Examines the issues of the security of non-nuclear states, vertical proliferation, application of safeguards procedures, and nuclear safety as presented at a conference on nuclear proliferation, held in March 1975 at Clark University, Worcester, Massachusetts.

Introduction - Nuclear Proliferation: To Bell the Cats or Catch the Mice?

Part I: (Ch 1) The Emergence of a New Second Order of Powers in the International System - S.B. Cohen; (Ch 2) The United States-Soviet Arms Race: SALT and Nuclear Proliferation - S.H. Leader and B.R. Schneider; (Ch 3) The Non-Proliferation Treaty and the Nuclear Aspirants: The Strategic Context of the Indian Ocean - R.M. Lawrence; Discussion Essay: Proliferation and the International Strategic System;

Part II: (Ch 4) Risks of the Nuclear Fuel Cycle and the Developing Countries - C. Hohenemser; (Ch 5) Commercial Nuclear Technology and Nuclear Weapon Proliferation - T.B. Taylor; (Ch 6) India's Nuclear Policy - K. Subrahmanyam; Discussion Essay: Nuclear Safety, Weapons and War;

Part III: (Ch 7) Nuclearization and Stability in the Middle East - S.J. Rosen; (Ch 8) Determinants of the Nuclear Option: The Case of Iran - A.H. Cahn; (Ch 9) South Africa's Foreign Policy Alternatives and Deterrence Needs - E. Bustin; (Ch 10) Japan's Response to Nuclear Developments: Beyond "Nuclear Allergy" - Y. Sato; (Ch 11) Brazil's Nuclear Aspirations - H.J. Rosenbaum; (Ch 12) Incentives for Nuclear Proliferation: The Case of Argentina - C.H. Waisman; Discussion Essay: The Typical Nuclear Proliferator; Epilogue: The NPT Review Conference, Geneva, 1975;

Appendices: A - The Non-Proliferation Treaty; B - Final Declaration of the Review Conference of the Parties to the Treaty on the Non-Proliferation of Nuclear Weapons; C - Status of the Non-Proliferation Treaty.

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31. McBride, James H.

The Test Ban Treaty: Military, Technological, and Political Implications. Chicago: Henry Regnery Company, 1967. 197 pp.

Analysis of the impact of the Limited Test Ban Treaty on future US security, based largely on two Senate committee hearings. Concludes that the already-signed LTB was not in the security interests of the US.

(Ch 1) Introduction; (Ch 2) Historical Background; (Ch 3) The State of the Art in the United States and the Soviet Union; (Ch 4) Clandestine Testing and Its Detection; (Ch 5) Some Strategic Problems; (Ch 6) Military and Technological Advantages and Disadvantages; (Ch 7) The Safeguards; (Ch 8) Political Aspects; (Ch 9) Conclusions; Appendices.

32. Nieburg, Harold L.

Nuclear Secrecy and Foreign Policy. Washington D.C.: Public Affairs Press, 1964.

Political analysis and critique of US policies regarding nuclear power/weapon information secrecy. Examines justifications and goals of secrecy policies, and provides history of US belief that denial of information could prevent dissemination of its effects.

(Ch 1) Problems and Issues; (Ch 2) Secrecy and Strategic Transition; (Ch 3) The Policy Process; (Ch 4) Development of Tripartite Secrecy Control; (Ch 5) Towards Nuclear Parity; (Ch 6) Strategy of the Peaceful Atom; (Ch 7) The Progress of Declassification; (Ch 8) Flowering of the Peaceful Atom; (Ch 9) Decline of the Peaceful Atom; (Ch 10) Euratom: The Art of Coalition Politics; (Ch 11) The Case of the Lucky Dragon; (Ch 12) A House Divided; (Ch 13) Abortive New Directions; (Ch 14) New Frontiers; (Ch 15) Nuclear Exclusion and the Common Market; (Ch 16) The View from Here.

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## 33. Nuclear Energy Policy Study Group.

Nuclear Power Issues and Choices. (Sponsored by the Ford Foundation, administered by the MITRE Corporation) Cambridge, Mass. Ballinger Publishing Co. 1977. 418 pp.

The Ford/MITRE study, which began in 1974 and utilized a panel of nationally recognized experts in the field of nuclear energy, contains much information relating to the overlap between nuclear energy and nuclear proliferation. It also contains an excellent introduction to the technology of the nuclear fuel cycle. Some of the study group's recommendations, which are summarized in the 38-page Overview, provided a background for the Carter Administration energy and non-proliferation policies.

Overview:

Part 1 - Energy Economics and Supply: (Ch 1) Energy and the Economic Future; (Ch 2) Uranium and Fossil Fuel Supplies; (Ch 3) Economics of Nuclear Power; (Ch 4) Alternative Energy Sources;

Part 2 - Health, Environment, and Safety: (Ch 5) Health Effects; (Ch 6) Environmental Effects; (Ch 7) Reactor Safety; (Ch 8) Radioactive Wastes;

Part 3 - Nuclear Proliferation and Terrorism: (Ch 9) Nuclear Power and Proliferation of Nuclear Weapons; (Ch 10) Nuclear Terrorism;

Part 4 - Issues for Decision: (Ch 11) Plutonium Reprocessing and Recycle; (Ch 12) Breeder Reactors; (Ch 13) Uranium Enrichment; (Ch 14) Nuclear Export Policy; (Appendix) Nuclear Power Technology.

## 34. Penner, S.S. (ed.)

Energy: Volume III - Nuclear Energy and Energy Policies. Reading, Massachusetts: Addison-Wesley Publishing Co., 1976. 713 pp.

A comprehensive text on nuclear technologies, consisting of formalized lecture notes from a number of authors. While highly technical, it is a valuable source to the non-specialist with even a minimal background in the sciences.

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(Note: As the third volume in a series, the first two volumes of which deal with other than nuclear energy, chapters are numbered consecutively, and thus this volume begins with Chapter 21.)

(Ch 21) Nuclear Fission Energy - J.P. Howe; (Ch 22) Nuclear Fission Energy: Breeder Reactors - J.P. Howe; (Ch 23) Controlled Thermonuclear Fusion - A.R. Hochstim, et. al.; (Ch 24) Environmental Aspects of Nuclear Power Applications - S.S. Penner, et. al.; (Ch 25) Nuclear Strategies - S.S. Penner, et. al.; (Ch 26) Energy Policies - S.S. Penner.

## 35. Quester, George.

Nuclear Diplomacy: The First Twenty-Five Years.  
Cambridge, Massachusetts: Dunellen Publishing Co., 1973 (2nd edition). 334 pp.

Within each of the chapters, each of which deals with a specific phase in arms control in general, there is a section or sections concerned with proliferation that provides a good, although brief overview of the history of international efforts to control proliferation. Particularly useful in terms of providing the overall context in which proliferation policies evolved and the nuclear club grew.

(Ch 1) The US Monopoly: 1945-1949; (Ch 2) The Monopoly Eliminated: 1949-1953; (Ch 3) The New Look: 1953-1957; (Ch 4) The Missile Gap: 1957-1961; (Ch 5) The Kennedy Administration: 1961-1963; (Ch 6) From Johnson to Nixon: 1963-1969.

## 36. Quester, George.

The Politics of Nuclear Proliferation. Baltimore: The Johns Hopkins University Press, 1973. 249 pp.

Reviews the military, political, and economic arguments for proliferation. Outlines 17 countries' perspectives on proliferation and views on the NPT.

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(Ch 1) Introduction; (Ch 2) Washington; (Ch 3) Moscow; (Ch 4) New Delhi; (Ch 5) Jerusalem; (Ch 6) Tokyo; (Ch 7) Stockholm; (Ch 8) Brasilia, Buenos Aires, Santiago; (Ch 9) London, Ottawa, Canberra; (Ch 10) Bonn; (Ch 11) Rome; (Ch 12) Paris, Pretoria, Peking; (Ch 13) The Vienna Agency; (Ch 14) Some Conclusions.

## 37. Sanders, Ralph.

Project Plowshare: The Development of the Peaceful Uses of Nuclear Explosions. Washington, D.C.: Public Affairs Press, 1962. 206 pp.

Written when the US was actively promoting the benefits of PNE's, this book examines the development of the Plowshare program, and assesses the need for and technological potential of PNE's.

## 38. Schmidt, F.H.; Bodansky, D.

Energy Controversy: The Fight Over Nuclear Power. San Francisco: Albion Publishing Company, 1976. 154 pp.

Comprehensive and detailed analysis of the controversy over nuclear power's role in the future US energy grid. Describes issues involved, significance of nuclear energy from both economic and political perspectives, and its impact on the dissemination of nuclear weapons.

## 39. Smyth, Henry.

Atomic Energy for Military Purposes: The Official Report on the Development of the Atomic Bomb under the Auspices of the United States Government. Princeton, New Jersey: Princeton University Press, 1945. 264 pp.

First officially authorized report on the Manhattan Project. Summarizes administrative history and unclassified technical details of the development of the atomic bomb. First attempt to familiarize the public with the various aspects

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of the bomb and its history and impact on the future.

(Ch 1) Introduction; (Ch 2) Statement of the Problem; (Ch 3) Administrative History up to December 1941; (Ch 4) Progress up to December 1941; (Ch 5) Administrative History 1942-1945; (Ch 6) The Metallurgical Project at Chicago in 1942; (Ch 7) The Plutonium Production Problem as of February 1943; (Ch 8) The Plutonium Problem, January 1943 to June 1945; (Ch 9) General Discussion of the Separation of Isotopes; (Ch 10) The Separation of the Uranium Isotopes by Gaseous Diffusion; (Ch 11) Electromagnetic Separation of Uranium Isotopes; (Ch 12) Work on the Atomic Bomb; (Ch 13) General Summary.

40. Stockholm International Peace Research Institute.

The Near-Nuclear Countries and the NPT. New York: Humanities Press, 1972. 123 pp.

Describes the attitudes of 15 states not party to the NPT considered to be near to nuclear weapon capability. Examines the future of the NPT in light of the implications of such attitudes.

Part I: General Background;

Part II: Country Studies - India, Pakistan, Israel, The Arab Republic of Egypt, South Africa, Japan, Australia, Spain, Brazil, Argentina, Euratom and the NPT, The Federal Republic of Germany, Italy, the Netherlands, Belgium, Switzerland;

Part III: Conclusions.

41. Stockholm International Peace Research Institute (Barnaby, Frank C., ed.)

The Nuclear Age. Cambridge, Massachusetts: MIT Press, 1974. 148 pp.

Provides introductory information on the overlap between nuclear energy and nuclear weapons proliferation as background for the 1975 NPT Review Conference.

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(Ch 1) The Future Role of Nuclear Power in Energy Supplies; (Ch 2) The Nuclear Fuel Cycle; (Ch 3) Plutonium Production from Nuclear Power Reactors; (Ch 4) Nuclear Safeguards; (Ch 5) Nuclear Explosions for Peaceful Purposes; (Ch 6) The NPT Review Conference; Appendices.

42. Stockholm International Peace Research Institute , (Jasani, B.M., ed.).  
Nuclear Proliferation Problems. Cambridge, Mass: MIT Press, 1974. 312p.

This volume, which was written to review problems likely to be raised at the 1975 NPT Review Conference, brings together papers written by a group of leading experts from a variety of countries. It focuses on the entire range of issues concerning nuclear proliferation.

Part 1 Nuclear Technology: (Ch 1) Introduction; (Ch 2) A Projection of Nuclear Power and Its Associated Industry- B.I. Spinrad; (Ch 3) Fast Breeder Reactors- B.M. Jasani; (Ch 4) Uranium Enrichment Technologies and the Demand for Enriched Uranium- P. Boskma; (Ch 5) Nuclear Fuel Fabrication Plants- B.M. Jasani; (Ch 6) Nuclear Fuel Reprocessing Plants- B.M. Jasani; (Ch 7) Uranium Enrichment and the Proliferation of Nuclear Weapons- P. Boskma; (Ch 8) Nuclear Weapon Technology- J.C. Hopkins; (Ch 9) Nuclear Miniweapons and Low-Yield Weapons which Use Reactor-Grade Plutonium: Their Effect on the Durability of the NPT- J.K. Miettinen.

Part 2 The NPT Safeguards: (Ch 1) Introduction; (Ch 2) The IAEA's NPT Safeguards- R. Rainer and B. Sanders; (Ch 3) NPT Safeguards- W. Hafele; (Ch 4) Arguments for Extended NPT Safeguards- J. Prawitz; (Ch 5) Nongovernmental Nuclear Weapons Proliferation- M. Willrich; (Ch 6) Nuclear Power: A Trojan Horse for Terrorism- D. Krieger;

Part 3 Cooperation in the Applications of Nuclear Energy: (Ch 1) Introduction; (Ch 2) International Nuclear Collaboration and

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Article IV of the NPT- B. Goldschmidt; (Ch 3) On The Peaceful Use of Nuclear Explosions- V.S. Emelyanov;  
Part 4 Security Problems of Non-Nuclear-Weapons States: (Ch 1) Introduction; (Ch 2) The Non-Proliferation of Nuclear Weapons and the Security of the Non-Nuclear States- A.N. Kaliadin; (Ch 3) The UN Security Council Resolution of 19 June 1968 and the Security of Non-Nuclear-Weapon States- J. Goldblat; (Ch 4) Italy and the Nuclear Option- F. Calogero; (Ch 5) The Non-Proliferation Treaty: The Japanese Attitude Three Years After Signing- R. Imai; (Ch 6) Indian Attitude Towards the NPT- K Subrahmanyam; (Ch 7) Israel's Attitude Towards the NPT- S. Flapan; (Ch 8) European Security and the Non-Proliferation Treaty- J.K. Miettinen.

43. Stockholm International Peace Research Institute (Barnaby, Frank C., ed.)  
Preventing Nuclear Weapon Proliferation: An Approach to the Non-Proliferation Treaty Review Conference.  
Stockholm: SIPRI, 1975.

A short, clear introduction for the non-specialist to the NPT and its limitations, as well as to the issues that were slated to come before the NPT Review Conference in May 1975.

44. Stockholm International Peace Research Institute (Sanders, B., ed.)  
Safeguards against Nuclear Proliferation. Cambridge, Massachusetts: MIT Press, 1975. 114 pp.

Reviews the operation of IAEA safeguards, as applied both under the NPT and on an individual country basis. It highlights some of the problems associated with the application of safeguards to further discussion at the 1975 NPT Review Conference.

(Ch 1) The Background; (Ch 2) Some Basic Issues; (Ch 3) The Application; (Ch 4) Funds

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and Figures; (Ch 5) Further Developments; Appendices: (1) Extracts from IAEA document INFCIRC/209 (3 September 1974) and INFCIRC/209/add.2 (24 October 1974); (2) IAEA Members; (2A) Situation on 31 December 1974 on Conclusion of Safeguards Agreements; (2B) Safeguards Agreements Approved by the IAEA Board; (3) INFCIRC/153 - the "Blue Book"; (4) INFCIRC/66/Rev.2: Safeguards System of 1965 and Amended in 1966 and 1968; (5) The Agency's Inspectorate.

45. Wentz, Walter B.

Nuclear Proliferation. Washington, D.C.: Public Affairs Press, 1968. 216 pp.

A broad, interdisciplinary overview of the political, military, scientific, and economic problems associated with nuclear proliferation. Intended as a reference work for the policy maker and the political scientist.

Part I: The Nuclear Option: (Ch 1) The Nuclear Reality; (Ch 2) The Proliferation Trend; (Ch 3) The Nuclear Club Candidates; (Ch 4) Exercising the Nuclear Option; (Ch 5) China - An Atomic Adversary; (Ch 6) France - An Atomic Friend;

Part II: The Consequences of Acquisition: (Ch 7) India - An Atomic Neutral; (Ch 8) Israel - An Atomic Fuse; (Ch 9) West Germany - An Atomic Enigma; (Ch 10) Japan - Another Enigma; (Ch 11) The Fringe Nations;

Part III: The Alternatives of US Policy: (Ch 12) Alternatives of Nuclear Strategy; (Ch 13) The McNamara Doctrine; (Ch 14) Deterrents; (Ch 15) Proliferation Policy; (Ch 16) Arms Control and Disarmament; (Ch 17) Revolution and Communism; (Ch 18) China Policy; (Ch 19) Asian Policy; (Ch 20) European Policy; (Ch 21) Near and Middle East Policy;

Part IV: Conclusion: (Ch 22) Realities and Alternatives; (Ch 23) Politics and Proliferators; (Ch 24) US Nuclear Power.

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46. Willrich, Mason (ed.).

Civil Nuclear Power and International Security. New York: Praeger Publishers, 1971. 124 pp.

A collection of four papers written for a conference on the international security problems associated with the emergence of large-scale civil nuclear programs in many countries.

(Ch 1) The Nature of the Problem - M. Willrich; (Ch 2) The Military Potential of Civil Nuclear Power - V. Gilinsky; (Ch 3) International Safeguards - D.E. George and R.F. Lumb; (Ch 4) The International Political Context - L. Beaton.

47. Willrich, Mason.

Global Politics of Nuclear Energy. New York: Praeger Publishers, 1971. 204 pp.

Provides overview of the international policy problems associated with peaceful nuclear energy, and evaluates the policy options available for coping with them. Asserts that existing structures are inadequate for proper control.

Part I: Introduction: (Ch 1) Technology Challenges Politics;

Part II: Politics of Nuclear Power: (Ch 2) Nuclear Fuel Cycle; (Ch 3) Political Evolution; (Ch 4) National Capabilities and Objectives; (Ch 5) International Control; (Ch 6) Probable and Possible Futures;

Part III: Politics of Technology Development: (Ch 7) Breeder Reactors; (Ch 8) Nuplex; (Ch 9) Plowshare; (Ch 10) Controlled Fusion;

Part IV: Conclusion: (Ch 11) Nuclear Energy and World Order.

48. Willrich, Mason (ed.).

International Safeguards and Nuclear Industry. Baltimore: The Johns Hopkins University Press, 1973. 307 pp.

An extensive study of the IAEA/NPT safeguards

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system: its history, operation, and problems.

Part I: Introduction: (Ch 1) The Need for International Safeguards - H.D. Smyth; (Ch 2) Historical Evolution of International Safeguards - B.G. Bechhoefer; (Ch 3) Worldwide Nuclear Industry - M. Willrich;

Part II: Safeguards against Nuclear Diversion: (Ch 4) International Atomic Energy Safeguards - P.C. Szasz; (Ch 5) National Safeguards - E.M. Kinderman;

Part III: Possibilities for Nuclear Diversion: (Ch 6) Diversion by National Governments - V. Gilinsky; (Ch 7) Diversion by Non-Governmental Organizations - T.B. Taylor;

Part IV: Implications of Nuclear Safeguards: (Ch 8) Industrial Implications of Safeguards - E.M. Kinderman; (Ch 9) Political Implications of Safeguards - L. Scheinman;

Part V: Conclusion: (Ch 10) International Safeguards and Nuclear Industry - M. Willrich.

49. Willrich, Mason.

Non-Proliferation Treaty: Framework for Nuclear Arms Control. Charlottesville, Virginia: Michie Co., 1969. 341 pp.

Intended primarily for policy makers and international lawyers, the book focuses on three aspects of the NPT Regime: the legal and political background of international proliferation control; evaluation of the document; and future trends and implications.

(Ch 1) World Context; (Ch 2) Policy Evaluation; (Ch 3) Legal Background; (Ch 4) Non-Transfer and Non-Acquisition of Nuclear Weapons; (Ch 5) Safeguards on Peaceful Nuclear Activities; (Ch 6) Sharing Peaceful Nuclear Benefits; (Ch 7) Durability of the Treaty; (Ch 8) Future Implications.

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50. Willrich, Mason; Taylor, Theodore B.

Nuclear Theft: Risks and Safeguards. Cambridge, Mass.  
Ballinger Publishing Company. 1974. 252 pp.

This book, which was a report to the Ford Foundation Energy Policy Project, has become a standard reference in the area of nuclear terrorism and safeguards. Its analysis of the possibility of nuclear violence using stolen fissionable materials, its criticism of existing safeguards, and its recommendations have stimulated significant debate.

(Ch 1) Introduction; (Ch 2) Nuclear Weapons;  
(Ch 3) Nuclear Fuel Cycles: 1973-80; (Ch 4)  
Nuclear Power Scenarios: 1980-2000; (Ch 5)  
US Safeguards Against Nuclear Theft; (Ch 6)  
Risks of Nuclear Theft; (Ch 7) Nuclear  
Safeguards: Basic Considerations; (Ch 8)  
Safeguard Measures; (Ch 9) Costs of  
Safeguards; (Ch 10) Conclusions and  
Recommendations; (Appendices) A. Historical  
Background; B. Foreign Nuclear Power:  
Reactor Types and Forecasts; C. US AEC  
Regulatory Guide 5.7 - Control of Personnel  
Access to Protected Areas, Vital Areas, and  
Material Access Areas (June 1973); D. Risks  
of Governmental Diversion in  
Non-Nuclear-Weapon Countries; E. Reviewer  
Comments.

51. Wohlstetter, Albert.

The Spread of Nuclear Bombs: Predictions, Premises,  
Policies. Los Angeles: Pan Heuristics, 1977. 164 pp.

Presents an overview of the problem of proliferation which includes: a perspective on the genesis of the problem; a general strategy for sequential decision-making appropriate given the large uncertainties concerning nuclear energy growth; and an outline of specific policies for the United States and other supplier governments.

(Ch 1) Prediction and Decision; (Ch 2)  
Premises and Origins; (Ch 3) Is the Spread  
Likely Under the Present Rules?; (Ch 4)  
Would the Spread to Other Countries Be Bad?  
(Ch 5) What, If Anything, Can We Do to Limit

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or Slow the Spread?; (Ch 6) Will Slowing the Spread Cost More Than It Is Worth?; (Ch 7) Policies.

52. Wohlstetter, Albert, et. al.

Moving Toward Life in a Nuclear Armed Crowd?  
(Prepared under contract to US ACDA.) Los Angeles: Pan Heuristics, 1976. 286 pp.

Both political and technical in scope, this document deals with the trends in proliferation, and the impact that further weapons spread would have on the US and the world. It is highly useful for both background and specific information.

(Ch 1) The Trends and the Questions They Pose; (Ch 2) Primer on Technology; (Ch 3) Perspective on Inhibiting "Dangerous" Activities; (Ch 4) Some Economic Aspects of Nuclear Proliferation; (Ch 5) Thinking Through the Middle Power Nuclear Option - Paradoxes and Problems of Proportional Deterrence in the Case of Japan; (Ch 6) Life in a Nuclear Crowd; (Appendix 1) The Plutonium Recycle Enrichment Penalty; (Appendix 2) The Recycled Uranium Enrichment Penalty; (Appendix 3) Land-Based Silo Survivability Formulas; Bibliography; (Appendix 4) Technology for Nuclear Weapons Capability; References (to Appendix 4).

## ARTICLES

1. Ayers, Russell W.

"Policing Plutonium: The Civil Liberties Fallout." Harvard Civil Rights/Civil Liberties Law Review, v. 10, no. 2 (Spring 1975). pp 369-443.

Examines the impact of policies which will be needed to prevent thefts of plutonium in a plutonium-recycling economy on civil liberties.

2. Baker, Steven J.

"Arms Transfers and Nuclear Proliferation." Arms Control Today, v. 7, no. 4 (April 1977). pp 1-3.

A critique of the concept that US export of advanced conventional weapons will bring regional stability, raise the nuclear threshold, and lessen the incentive for nuclear weapons proliferation.

3. Barnaby, Frank C.

"How States Can 'Go Nuclear'." The Annals of the American Academy of Political and Social Sciences, v. 430 (March 1977). pp29-43.

Summarizes the unclassified technical information, expertise, and equipment needed for nations to fabricate nuclear weapons. Indicates that very few technical or economic barriers exist, either in weapons development or acquisition of delivery systems.

4. Bathurst, M.E.

"Legal Aspects of the International Control of Atomic Energy." British Yearbook of International Law, v. 24 (1947). pp 1-32.

Reviews the legal aspects of international control of atomic energy and weapons from the Three Nation Agreed Declaration on Atomic Energy through the UN Atomic Energy Commission.

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5. Beaton, Leonard.

"Nuclear Fuel for All." Foreign Affairs, v. 45 (July 1976). pp 662-669.

Discusses the dangers of plutonium proliferation and the prevention measures necessary, in the light of the proposed NPT. Stresses the flaws inherent to the safeguards system when faced with world-wide dissemination of nuclear fuel and the illusionary nature of the legalistic belief in safeguards.

6. Bebbington, William P.

"The Reprocessing of Nuclear Fuels." Scientific American, v. 235, no. 6 (December 1976). pp 30-41.

Article reviews methods and sequences of reprocessing and brings counterarguments to criticism of reprocessing plants.

7. Bechhoefer, Bernhard G.

"Negotiating the Statute of the International Atomic Energy Agency." International Organization, v. 13, no. 1 (Winter 1959). pp 38-59.

Analyzes the reasons for the success of negotiations leading to the creation of the IAEA in a Cold War atmosphere. Reviews procedures, outside influences on the negotiations, issue of the peaceful uses of the atom, US/Soviet bilateral exchanges, expansion of negotiations to a multilateral forum, problems at different stages. Notes coinciding interests of US and USSR on issues.

8. Bechhoefer, Bernhard G.; Stein, Eric.

"Atoms for Peace: The New International Atomic Energy Agency." Michigan Law Review, v. 55, no. 6 (April 1957). pp 747-798.

A history of the negotiations of the IAEA

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Statute, and a review of the functions of the Agency.

9. Berman, William H.; Hydeman, Lee M.  
"Nuclear Explosions for Peaceful Purposes." Natural Resources Journal, v. 1, no. 1 (March 1961). pp 1-22.  
A review of Project Plowshare and a summary of possible peaceful uses of nuclear explosives.

10. Betts, Richard K.  
"Paranoids, Pygmies, Pariahs, and Nonproliferation." Foreign Policy, no. 26 (Spring 1977). pp 157-183.  
Critiques what the author believes are fallacies of emphasis for US anti-proliferation policies. Examines the conflict between anti-proliferation policies and other US foreign policy goals.

11. Brennan, Donald.  
"A Comprehensive Test Ban: Everybody or Nobody." International Security, v. 1, no. 1 (Summer 1976). pp 92-117.  
Argues the thesis that the only sensible objective of a CTB is its help in inhibiting further weapons proliferation, and advocates that the US should participate in such a treaty if, and only if, all other nuclear-weapon states participate.

12. Brody, Richard A.  
"Some Systematic Effects of the Spread of Nuclear Weapons Technology: A Study through Simulation of a Multi-Nuclear Future." Journal of Conflict Resolution, v. 7, no. 4 (December 1963). pp 663-753.  
Attempts to utilize the controlled manipulation

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of an experimental "political game" to gain insight into the possible state of affairs in a proliferated world.

## 13. Burns, E.L.M.

"The Non-Proliferation Treaty: Its Negotiations and Prospects." International Organization, v. 23, no. 4 (August 1969). pp 788-807.

Reviews in considerable detail the history of the negotiations leading to the NPT, including US/Soviet problems, PNE's, safeguards, verification.

## 14. Burt, Richard.

"Nuclear Proliferation and the Spread of New Conventional Weapons Technology." International Security, v. 1, no. 3 (Winter 1977).

Examines the concept that exporting advanced conventional weapons will lower the incentives for non-nuclear-weapon states to develop nuclear weapons. Concludes that, in specific instances, the transfer of conventional arms may have more utility as a means of managing proliferation than in halting it.

## 15. Carter, James E.

"Three Steps Toward Nuclear Responsibility." The Bulletin of the Atomic Scientists, v. 32, no. 8 (October 1976). pp 8-14.

An outline of nuclear energy and nuclear proliferation issues with campaign statements concerning possible US nonproliferation initiatives. This article is part of a debate, the response to which, entitled "Illusions and Realities About Nuclear Energy" by Fred C. Ikle, may be found immediately following.

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16. Carter, Luther J.

"Nuclear Testing: U.S.-Soviet Treaties Viewed with Doubts and Misgivings." Science, v. 192, no. 4245 (18 June 1976). pp 1217-1218.

Analysis of flaws and loopholes in Threshold Test Ban Treaty. Questions sincerity of US/Soviet commitment to arms control.

17. "Carter vs. Plutonium: The Battle Is Joined."

Nuclear News, v. 20, no. 7 (May 1977). pp 33-36.

Explanation and critique of President Carter's statement of 7 April 1977 on nuclear power and nuclear weapons proliferation.

18. Casper, Barry.

"Laser Enrichment: A New Path to Proliferation?" The Bulletin of the Atomic Scientists, v. 33, no. 1 (January 1977). pp 28-41.

A summary of the public information available concerning research and development for laser isotope separation as a method of uranium enrichment. Analysis of the arms control/proliferation implications of such research.

19. Coffey, Joseph I.

"Nuclear Guarantees and Non-Proliferation." International Organization. v. 25, no. 4 v. 25, no. 4 (August 1971). pp 836-844.

An analysis of current nuclear guarantees and a critique of UN Security Council Resolution No. 255 (1968).

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20. Coffey, Joseph I. (ed.).

"Nuclear Proliferation: Prospects, Problems, and Proposals." The Annals of the American Academy of Political and Social Science, v. 430 (March 1977). 236 pp.

This special issue of The Annals addresses itself to three aspects of nuclear proliferation: the prospect that new nuclear powers will come on the scene; the problems that their arrival may create; and ways of coping with those problems.

21. Cohen, S.T.; Van Cleave, W.R.

"The Nuclear Test Ban: A Dangerous Anachronism." National Review, (8 July 1977). pp 770-775.

Maintains that a CTB agreement would leave open a verification loophole, and as such would benefit the USSR.

22. Comar, C.L.

"Plutonium: Facts and Inferences." EPRI Journal, v. 1, no. 9 (November 1976). pp 20-24.

Summarizes the knowledge about plutonium and the reasonable inferences that can be drawn from that knowledge in the following areas: release of plutonium into the environment from the nuclear power industry; plutonium in the biosphere; plutonium and human beings; and diversion of plutonium for malevolent purposes.

23. "Completing the Nuclear Fuel Cycle."

EPRI Journal, v. 2, no. 2. (March 1977). pp 6-11.

Reviews the technical issues which require resolution before the "back end" of the fuel cycle can be closed.

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24. de Gara, John P.

"Nuclear Proliferation and Security." International Conciliation, no. 578 (May 1970) (Carnegie Endowment for International Peace). 69 pp.

An examination of the principle features of the NPT and some aspects of the adequacy of incentives provided for the non-nuclear states to forego the acquisition of nuclear weapons within the framework of the Treaty.

25. Dickeman, R.L.

"The Case for Continued Laser Uranium Enrichment." The Bulletin of the Atomic Scientists, v. 33, no 6 (June 1977). pp 54-56.

Advocates the continuation of laser enrichment R&D, in specific rebuttal to the proponents of forced curtailment of such technology. Criticizes the viewpoint that the US can deter technological progress in other countries through any type of unilateral moratorium.

26. Doub, William O.; Duckert, Joseph M.

"Making Nuclear Energy Safe and Secure." Foreign Affairs, v. 53 (July 1975). pp 756-772.

Reviews the major problems facing the increase in the use of nuclear energy. Proposes increased authority and wider function for the IAEA, as well as establishment of regional nuclear fuel cycle centers.

27. Dougherty, James E.

"The Treaty and the Non-Nuclear States." Orbis, v. 11 (Summer 1967). pp 360-377.

A review of the dilemmas and motives behind the policies and goals of non-nuclear-weapon states as a function of the pressures exerted on them by nuclear power under the NPT.

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28. Dunn, Lewis A.  
"Nuclear 'Gray Marketeering.'" International Security, v. 1, no. 3 (Winter 1977). pp 107-118.

Identifies and evaluates a critical proliferation turning point, "gray marketeering," defined as covert or officially unacknowledged assistance to a weapons candidate or new nuclear-weapons state.

29. Dunn, Lewis A.  
"Nuclear Proliferation and World Politics." The Annals of the American Academy of Political and Social Science. v. 430. (March 1977). pp 96-109.

Discusses possible regional interactions and global repercussions in a proliferated world, and outlines goals for stability management.

30. Dunn, Lewis A.; Overholt, William H.  
"The Next Phase in Nuclear Proliferation Research." Orbis, v. 20, no. 2. (Summer 1976). pp 497-524.

Suggests nuclear proliferation research should transform the concept of proliferation into a more precise and analytically useful one, focus on categories of potential proliferators, and delineate likely problems and risks of a more proliferated world.

31. "EEC Non-Weapon States, IAEA Conclude (Safeguards) Agreement."  
Nuclear News, v. 20, no. 5 (April 1977). pp 110-112.

Reports the conclusion of a group safeguards agreement between the Euratom countries and the IAEA. Examines the history of the negotiations and explains the current safeguards procedures.

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32. Ehrlich, Thomas.

"The Non-Proliferation Treaty and Peaceful Uses of Nuclear Explosives." Virginia Law Review, v. 56, no. 4 (1970). pp 587-601.

An examination of Article V in the NPT, which ensures that all parties will be able to share in the potential benefits of PNE's.

33. Epstein, William.

"Nuclear Proliferation: The Failure of the Review Conference." Survival. v. 17. no. 6. (November/December 1975). pp 262-269.

Review conference of NPT turns into confrontation between the "haves" and the "have nots" and achieves little in terms of solving the technical and political problems of proliferation.

34. Epstein, William.

"Nuclear-Free Zones." Scientific American. v. 233. no. 5. (November 1975). pp 25-35.

Reviews alternative methods to control proliferation in light of the perceived failure of the NPT. Nuclear-free zones are seen as being potentially much more effective.

35. Epstein, William.

"The Proliferation of Nuclear Weapons." Scientific American, v. 232. no. 4. (April 1975). pp 18-33.

Analyzes the causes for the failure of the nuclear-weapons states to live up to their commitment under the NPT, and examines the possibilities of preventing the further degradation of the present situation.

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36. Epstein, William.

"Why States Go - And Don't Go - Nuclear." The Annals of the American Academy of Political and Social Science. v. 430. (March 1977). pp 16-28.

Analyzes the combination of military, political, and economic concerns and motivations which form the incentive/disincentive balance by which a state decides whether to develop or shun nuclear weapons.

37. "ERDA Answers Taylor on Uranium Supply Contentions."

Nuclear News. v. 20, no. 11 (September 1977). pp 57-61.

A review of critical responses by ERDA officials to two papers by Vincent Taylor (of Pan Heuristics) on ERDA's enrichment policies and uranium reserve estimates.

38. Ericsson, Ulf.

"The Non-Controversial Use of Nuclear Explosions for Peaceful Purposes." Cooperation and Conflict, no. 1 (1970). pp 1-19.

Deals with the question of PNE's and the possibility of misuses for the production of nuclear weapons. Concludes that PNE's do not present problems of misuse for weapons purposes.

39. Feiveson, Harold A.; Taylor, Theodore B.

"Security Implications of Alternative Fission Futures." The Bulletin of the Atomic Scientists. v. 32, no. 10 (December 1976). pp 14-18, 46-48.

Widespread growth of civilian nuclear power has contributed to "latent proliferation", defined as the diffusion of nuclear materials, facilities, and knowledge which facilitate a nation's possible future decision to acquire nuclear weapons. Both the "plutonium economy" and the

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"once-through" fuel cycle configurations have serious safeguard problems. A thorium cycle, developed and operated within a new international nuclear energy system, should be given serious study, since it would readily fit the authors' listed principles for an effective safeguard system.

## 40. Feld, Bernard T.

"A Pledge: No First-Use." The Bulletin of the Atomic Scientists. v. 23. no. 51 (May 1967). pp 146-149.

Discusses the various formulas for achieving a no first-use pledge and their implications, impact on non-nuclear weapons states, credibility, advantages, and prospects for universal acceptance.

## 41. Firmage, E.B.

"Treaty on the Non-Proliferation of Nuclear Weapons." American Journal of International Law, v. 63, no. 4 (October 1969). pp 711-746.

A detailed analysis of the NPT, coupled with a short history of the negotiations.

## 42. Flood, Michael.

"Nuclear Sabotage." The Bulletin of the Atomic Scientists. v. 32. no. 8. (October 1976). pp 29-36.

Analyzes the motives of terrorists and examines the past occurrences of attacks, threats, acts of sabotage, and security breaches for existing nuclear facilities.

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43. Franck, James K.

"Report to the Secretary of War." The Bulletin of the Atomic Scientists, v. 1, no. 10 (May 1946). pp 2-4.

The partial text of a report written 11 June 1945, two months before Hiroshima, by a group of atomic scientists of the Metallurgical Laboratory in Chicago, which raises issues of international atomic control and criticizes the concept of "denaturing" plutonium as a safeguard.

The full text of the Frank Committee Report is included in:

Smith, Alice K., A Peril and a Hope, Chicago: Chicago University Press, 1965 (pp 560-572).

44. Frank, Forrest R.

"An International Convention Against Nuclear Theft." The Bulletin of the Atomic Scientists, v. 31 no. 10 (December 1975). p 51.

Outlines possible elements which could form the basis for negotiating an international convention against nuclear theft. Suggests that such a convention is needed in addition to safeguards to deal with nuclear terrorism.

45. Frank, Forrest R.

"Nuclear Terrorism and the Escalation of International Conflict." Naval War College Review. v. 29, no. 2 (Fall 1976). pp 12-27.

An examination of unilateral, bilateral, and multilateral steps that could be taken to minimize the effects of escalation in the event of nuclear terrorism.

46. Gall, Norman.

"Atoms for Brazil, Dangers for All." Foreign Policy, no. 23. (Summer 1976). pp 155-201.

Reviews the nuclear exchange agreement between

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West Germany and Brazil, and analyzes the safeguards and policy significance of the agreement.

## 47. Gilinsky, Victor.

"Plutonium, Proliferation, and Policy." Technology Review, v. 79, no. 4 (February 1977). pp 58-65.

A concise review of the relationship between plutonium and American nuclear nonproliferation policy beginning with the 1946 Acheson-Lilienthal plan, and including President Ford's major policy statement on reprocessing and recycling of plutonium (28 October 1976). Warns that safeguards concerning plutonium have severe limitations and contribute to a false sense of safety. Outlines and points out the historical significance of the myth of "denatured" or "reactor-grade" plutonium, and indicates that "reactor-grade plutonium may be used for nuclear warheads at all levels of technical sophistication."

## 48. Gilinsky, Victor; Smith, Bruce L.R.

"Civilian Nuclear Power and Foreign Policy." Orbis, v. 12 (Fall 1968). pp 816-830.

Analyzes the problems posed by the control of civilian nuclear facilities in order to prevent their being used for military purposes. Discusses the absolute need for safeguards, alternatives to IAEA inspection, and US unilateral attempts to control foreign nuclear technology.

## 49. Gillette, Robert.

"Laser Fusion: An Energy Option, But Weapons Simulation Is First." Science, v. 188, no. 4183 (4 April 1975). pp 30-34.

Analysis of the nature and impact of laser fusion

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as a new technology. Seen as being potentially useful as a method of providing inexpensive energy, but viewed by many scientists as being most applicable in the simulation of nuclear weapons through the creation of micro-size thermonuclear explosions. As such, it is potentially a method for the US and USSR to circumvent a comprehensive test ban.

## 50. Gillette, Robert.

"Nozzle Enrichment for Sale." Science, v. 188, no. 4191 (30 May 1975). pp 911-914.

Utilizing the West German decision to supply Brazil with a complete nuclear fuel cycle, including a nozzle enrichment plant, as an example, stresses the necessity of controlling both the spread of nuclear facilities and materials, and, more importantly, the development of new technologies.

## 51. Gillette, Robert.

"Nuclear Exports: A U.S. Firm's Troublesome Flirtation with Brazil." Science, v. 189 (25 July 1975). pp 267-269.

Maintains that US was unable to block West German-Brazil deal due to inability to convince the Germans that the primary US concern was proliferation and not the protection of the interests of the US nuclear industry. Recounts episode involving the US Bechtel Corporation, a major supplier of nuclear facilities, in Brazil.

## 52. Gillette, Robert.

"Nuclear Testing Violations: Keeping It All in the Family." Science, v. 185 (9 August 1974). pp 506-510.

Some insight into the difficulties of enforcing arms control agreements through a discussion of nuclear testing violations by the US and the USSR

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and the way they have been dealt with.

## 53. Gillette, Robert.

"Uranium Enrichment: With Help, South Africa Is Progressing." Science, v. 188 (13 June 1975). pp 1090-1092.

Evaluates South Africa's nuclear status. In light of vast uranium reserves and West German assistance in developing nozzle enrichment, determines that South Africa is a highly likely "Nth" country in the nuclear club.

## 54. Glackin, James J.

"The Dangerous Drift in Uranium Enrichment." The Bulletin of the Atomic Scientists, v. 32, no. 2 (February 1976). pp 22-29.

Asserts that, due to spread of fissile materials and increase in number of states with necessary facilities for diversion of nuclear materials to military purposes, the nuclear-weapons states are no longer in a unique position. Calls for implementation of more effective safeguards before it is too late.

## 55. Goldschmidt, Bertrand.

"A Historical Survey of Nonproliferation Policies." International Security, v. 2, no. 1 (Summer 1977). pp 69-87.

Survey successive nonproliferation policies, examines their influence on international commerce, and summarizes the reactions of various countries from the viewpoint of a French diplomat.

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56. Gottstein, Klaus.

"Nuclear Energy for the Third World." The Bulletin of the Atomic Scientists, v. 33, No. 6 (June 1977). pp 44-48.

Reviews European feelings concerning restrictions on the export of sensitive technology and concerning multi-national fuel centers.

57. Grieco, Joseph M.

"American Foreign Policy and Nuclear-Weapon-Free Zones: Issues and Options." Potomac Review, v. 7 (Winter 1976). pp 12-23.

Examines the diplomatic and military problems of nuclear-weapon-free zones versus the arms control benefits. Concludes that the US should shift its policy to support such zones more actively as an important antiproliferation measure.

58. Guglialmelli, Juan E.

"The Brazilian-German Nuclear Deal: A View from Argentina." Survival, v. 18 (July/August 1976). pp 162-165.

Suggests that the Brazilian deal with West Germany means that Brazil has opted for developing nuclear weapons. Discusses the far-reaching consequences of such a decision in Latin America, and maintains that a potential arms race could be prevented by greater cooperation on nuclear matters.

59. Halperin, Morton H.

"A Proposal for a Ban on the First Use of Nuclear Weapons." Journal of Arms Control, v. 1, No. 2, (1963) pp. 112, 123.

Discusses the military advantages of a US/Soviet agreement to ban the first use of nuclear weapons. Concludes that such a ban would not be

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to the disadvantage of the US.

60. Halsted, Thomas A.

"Why Not a Real Nuclear Test Ban?" Arms Control Today, v. 6, no. 6 (June 1976). pp 1-5.

An overview and critique of the Threshold Test Ban Treaty, and a statement of opposition by the Arms Control Association.

61. Hammond, Allen L.

"Nuclear Proliferation (1): Warnings From the Arms Control Community." Science, (9 July 1976) pp. 126-130.

Discusses relatively recent emergence of the arms control community as advocates of stricter controls on nuclear power, particularly on enrichment and reprocessing technology.

62. Hammond, Allen L.

"Nuclear Proliferation (2): Will Fallout Kill Domestic Recycle?" Science, (16 July 1976) pp. 217-218.

Describes the increasing activity of arms control and environmental groups, who are moving to block recycling of plutonium in the US, as it is seen as a development that will make any effort by the US to convince other countries to forego this step hypocritical, and will have a dangerous impact on the environment as well.

63. Helm, Robert; Westeruelt, Donald.

"The New Test Ban Treaties: What Do They Mean? Where Do They Lead?" International Security, v. 1, no. 3 (1977). pp 162-178.

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Reviews the negotiation of the Threshold Test Ban Treaty, and examines the types of precedents for further restrictions on underground nuclear weapons testing the treaty may present.

## 64. Hirsch, R.L.

"Status and Future Directions of the World Program in Fusion Research and Development." Annual Review of Nuclear Science, v. 25 (1975). pp 79-121.

Reviews the basis of fusion. Describes the present state of fusion R&D and the interrelated approaches to fusion research. Briefly outlines the various national and international programs.

## 65. Hopkins, John C.

"Why Not Stop Testing?" The Bulletin of the Atomic Scientists, v. 33, no. 4 (April 1977). pp 30-31.

Asserts that the US should not stop testing (i.e. sign a CTB), since this would eventually destroy the US nuclear weapons expertise and place the confidence in present weapons stockpiles in jeopardy.

## 66. Ikle, Fred C.

"Illusions and Realities About Nuclear Energy." The Bulletin of the Atomic Scientists, v. 32, no. 8 (October 1976). pp 14-18.

Seeks to shed light on and disclose a number of fallacies that prevail today in connection with the issues of nuclear energy and world order. Acting as spokesman for the Ford Administration, Ikle summarizes its achievements and asserts that a nuclear future is feasible if handled realistically and persistently. This article provides a counterpoint to Presidential candidate Carter's in the same issue, "Three Steps Toward Nuclear Responsibility."

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67. Inglis, David R.; Sanders, Carl L.  
"A Special Report on Plowshare: Prospects and Problems: The Nonmilitary Uses of Nuclear Explosives." The Bulletin of the Atomic Scientists, v. 23 (December 1967). pp 46-53.

Assessment of the prospective peaceful uses of nuclear explosives, the problems to be encountered, and their relation to the progress of nuclear arms control.

68. "Iran Conference: Plea for Free Transfer of Technology." Nuclear News, v. 20, no. 8 (June 1977). pp 86-98.

A review of the proceedings and points for discussion of the International Conference on the Transfer of Nuclear Technology, held in April 1977 in Persepolis, Iran.

69. Jaishankar, S.; Mohan, C. Raja.

"Nuclear Cartelisation: Theory and Practice." Economic and Political Weekly, (14 May 1977). pp 798-802.

A critique of the Supplier's Conference approach to developing common nuclear export standards.

70. Jha, P.K.

"Treaty for the Prohibition of Nuclear Weapons in Latin America - 1967: A Critical Appraisal." Indian Journal of International Law, v. 8 (Jan. 1968) pp. 63-73.

Critiques the purpose, obligations, structure, and specific articles of the Treaty of Tlatelolco.

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71. Joskow, Paul L.

"The International Nuclear Industry Today: The End of the American Monopoly." Foreign Affairs, v. 54, no. 4 (July 1976).

Criticizes any American unilateral embargo or restriction on exports of nuclear facilities or technology as being a poor approach to the control of proliferation. Outlines the past and future international market in light water, heavy water, and breeder reactors, as well as enrichment and reprocessing technologies which have eliminated the past US monopoly control, and reduced, but not eliminated, US influence over international nuclear export trade.

72. Kaplan, Morton A.

"Weaknesses of the Non-proliferation Treaty." Orbis, v. 12 (Winter 1969). pp 1042-1057.

Attacks the NPT as being limited in scope and unlikely to curb proliferation. Discusses criteria for successful treaty, including a CTB and significant progress in the control of vertical proliferation.

73. Kapur, Asok.

"Nth Powers of the Future." The Annals of the American Academy of Political and Social Science, v. 430 (March 1977). pp 84-95.

Outlines optimistic and pessimistic scenarios for the development of nuclear weapons and 'bomb-in-the-basement' weapons capability for various regions of the world.

74. Koop, Jacob.

"Plowshare and the Non-proliferation Treaty." Orbis, v. 12 (Fall 1968). pp 793-815.

Discusses the inherent contradiction between the

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NPT and PNE programs. Calls for a CTB as a way to improve the NPT's effectiveness.

## 75. Lambeth, Benjamin S.

"Nuclear Proliferation and Soviet Arms Control Policy." Orbis, v. 14, No. 2 (Summer 1970). pp 298-325.

An analysis of the importance attached to preventing proliferation in Soviet arms control policy.

## 76. Lodgaard, Sverre.

"International Nuclear Commerce: Structure, Trends, and Proliferation Potentials." Bulletin of Peace Proposals, v. 18, no. 1 (1977). pp 15-31.

Sets out to outline the new pattern in the nuclear export market in terms of suppliers, purchasers, and products - essentially all of the elements of the fuel cycle.

## 77. Long, Clarence D.

"Nuclear Proliferation: Can Congress Act in Time?" International Security, v. 1, no. 4 (Spring 1977). pp 52-79.

Reviews unilateral steps that could be taken by the US to check proliferation. Summarizes US legislative efforts in that direction from 1974 to 1977.

## 78. Long, Frank A.

"Is There a Future for Peaceful Nuclear Explosions?" Arms Control Today, v. 5, no. 5 (May 1975). pp 1-5.

Short, comprehensive review of the economic viability of peaceful nuclear explosions, with a

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valuable selected bibliography. Includes an analysis of the potential applications for PNE's by Dr. Wolfgang Panofsky.

80. Long, Frank A.  
"Peaceful Nuclear Explosions." The Bulletin of the Atomic Scientists, v. 32 (October 1976). pp 18-28.

A report on two studies which cast doubt on the feasibility and benefits of peaceful nuclear explosions.

81. Lowrance, William W.  
"Nuclear Futures for Sale: To Brazil from West Germany, 1975." International Security, v. 1, no. 2 (1977). pp 147-166.

A comprehensive analysis of the export of nuclear power plants and "sensitive" technologies from West Germany to Brazil, with an analysis of the resulting expanded safeguards agreement.

82. "Major Nuclear Legislation."  
Nuclear News.

A summary of the content and legislative status of all bills related to nuclear issues introduced in either the House or Senate. This feature appears quarterly, in the March, June, September, and December issues every year.

83. Maraton, M.  
"Nuclear-Free Zone for Latin America." International Affairs (Moscow), no. 6 (July 1968). pp 34-39.

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Reviews the major aspects of the Treaty of Tlatelolco and presents the official Soviet position on the treaty.

84. McIntyre, Hugh C.

"Natural-Uranium Heavy-water Reactors." Scientific American, (October 1975). pp 17-27.

Discusses the advantages for proliferation of the CANDU reactor over the American light water reactor types.

85. Medalla, Jonathan E.

"Problems in Formulating and Implementing Effective Arms Control Policy: The Nuclear Test Ban Treaty." Stanford Journal of International Studies, v. 7 (Spring 1972). pp 132-161.

Details the negotiation of the 1963 Limited Test Ban Treaty and presents the thesis that, with respect to arms control negotiations, the difficulties of solving problems generated by technology by political means result in politically attractive but technologically ineffective agreements.

86. Metz, William D.

"European Breeders (1) France Leads the Way." Science, (26 Dec. 1975). pp 1279-1281.

Describes leading role of France in developing breeder technology, and the implications of such technology for world energy supply and the future of the nuclear industry.

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87. Myers, Henry R.  
"Extending the Nuclear Test Ban." Scientific American, v. 226 (Jan 1972). pp 13-23.

Discusses impact of new seismological methods which facilitate the differentiation of earthquakes from underground nuclear tests. This advance is described as having provoked renewed interest in a CTB.

88. Myrdal, Alva.  
"'Peaceful' Nuclear Explosions." The Bulletin of the Atomic Scientists, v. 31, no. 5 (May 1975). pp 29-33.

Analyzes the "loophole" in the NPT concerning PNE's, and concludes that their insignificant benefits, when contrasted with the dangers of nuclear weapons proliferation, dictate that the only solution is a comprehensive test ban treaty.

89. Nathawson, Eugene.  
"International Management of Radioactive Wastes." Environmental Affairs, v. 5, no. 2 (Spring 1976). pp 363-380.

Briefly reviews the problem of radioactive wastes. Discusses the degree of international cooperation, and examines the possibility that world bodies may take over full responsibilities for waste management.

90. Neild, Robert; Ruina, J.P.  
"A Comprehensive Ban on Nuclear Testing." Science, v. 175 (14 January 1972). pp 140-146.

Reviews the range of issues involved in the consideration of a CTB, and the reasons for its increasing plausibility.

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91. Nordyke, Milo D.

"A Review of Soviet Data on the Peaceful Uses of Nuclear Explosions." Annals of Nuclear Energy, v. 2, no. 9-10 (1975). pp. 657-673.

The PNE program that the Soviet Union has publicly discussed in various reports and meetings is summarized. Includes data on a large number of unidentified seismic events outside of the normal Soviet weapons-testing area.

92. Oppenheimer, Robert J.

"The Control of Atomic Energy." Foreign Affairs, v. 26, no. 2 (January 1948). pp 239-252.

Summarizes the basis for and the policy formulation of the US efforts at establishing international control of atomic energy.

93. Pardue, William M.

"An Evaluation of Alternative Nuclear Strategies." Annals of Nuclear Energy, v. 2, no. 11/12 (1975). pp 819-839.

An assessment by Battell-Columbus Lab of the technology associated with several reactor concepts which offer improved (vis-a-vis LWRs) natural resource utilization: HTGR, GCFR, MSBR, LWBR.

94. Pendley, Robert; Scheinman, Lawrence; Butler, Richard W.

"International Safeguards as Institutionalized Collective Behavior." International Organization, v. 29, issue 3 (Summer 1975). pp 586-616.

Reviews very extensively the history of safeguards, their development, negotiations, and effectiveness.

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95. "PNC [Power Reactor and Nuclear Fuel Development Corporation, Japan] Develops Uranium Extraction Technique from Low-Grade Uranium Ore." Atoms in Japan. v. 21. no. 6. 1977. pp 27-28.

Announces the development of a new absorbent technique which allows extraction of uranium from low-grade ore (less than 0.1% U3O8) quickly, at competitive cost.

96. Pomerance, J.D.

"The Anti-Test Ban Coalition." The Bulletin of the Atomic Scientists, v. 33, no. 1 (January 1977). pp 51-54.

Reviews the history of opposition within the US government to a comprehensive test ban.

97. Quester, George H.

"The Nuclear Non-Proliferation Treaty and the International Atomic Energy Agency." International Organization, v. 24, no. 2 (Spring 1970). pp 163-182.

Critiques the past performance of the IAEA's safeguards, and their future, expanded role in relation to the NPT.

98. Rao, K. Narayana.

"The Draft Treaty on Non-Proliferation of Nuclear Weapons: A Critical Appraisal." Indian Journal of International Law, (1968). pp 223-234.

Evaluates and criticizes the draft NPT with respect to its significance as a step towards peace and disarmament.

## ARTICLES

99. Rattner, Steven.

"Carter Aides Offer a Plan for US to Collect World's Nuclear Waste." New York Times (19 October 1977).

Report of the announcement of a plan whereby the US government would take over responsibility for the storage and disposal of spent fuel from US and foreign reactors.

100. Redick, John R.

"Prospects for Arms Control in Latin America." Arms Control Today, v. 5, no. 9 (September 1975). pp 1-4.

A concise introduction to the Treaty of Tlatelolco, its history, status, and significance. Includes a bibliography on Latin American nuclear and conventional arms control efforts.

101. Redick, John R.

"Regional Nuclear Arms Control in Latin America." International Organization, v. 29, no. 2 (Spring 1975). pp 415-445.

An analysis of the Treaty of Tlatelolco and the question of proliferation in Latin America. Analyzes the nuclear intentions of Argentina, Brazil, and Mexico, and notes the apparent potential for a nuclear arms race between the first two as a function of their historical rivalry for control in Latin America and Brazil's goal of becoming a major world power.

102. Ribicoff, Senator Abraham A.

"A Market-Sharing Approach to the World Nuclear Sales Problem." Foreign Affairs, v. 54, no. 4 (July 1976). pp 764-787.

Reviews past US nuclear export policies and outlines a five-step alternative market-sharing approach which would involve coordination among

## ARTICLES

supplier nations to achieve several non-proliferation objectives.

## 103. Robinson, Clarence A. Jr.

"Nuclear Test Halt Under Study." Aviation Week & Space Technology, (21 February 1977). pp 12-13.

Reports on efforts by President Carter to negotiate a bilateral agreement to halt nuclear weapons testing.

## 104. Robinson, Davis R.

"The Treaty of Tlatelolco and the United States: A Latin American Nuclear-Free Zone." American Journal of International Law, v. 64, no. 2 (April 1970). pp 282-309.

Appraises the impact on the US of signing Protocols 1 and 2 of the Treaty of Tlatelolco.

## 105. "Salzburg: A Review of the IAEA Conference on Nuclear Power and Its Fuel Cycle."

Nuclear News, v. 20, no. 9 (July 1977). pp 53-84.

Reviews selected papers on 13 different topics from the Conference held in May 1977.

## 106. Scheinman, Lawrence.

"Nuclear Safeguards, the Peaceful Atom, and the IAEA." International Conciliation, no. 572 (March 1969).

Analyzes the complex range of issues, the various interest groups, and the areas of actual or potential conflict between the nuclear and non-nuclear powers, and between the US and Western Europe, over safeguards.

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107. Schelling, Thomas C.

"Who Will Have the Bomb." International Security, v. 1, no. 1 (Summer 1976). pp 77-91.

Defines "having the bomb" and outlines the various approaches that will be necessary to inhibit its spread.

108. Schlesinger, James R.

"The Strategic Consequences of Nuclear Proliferation." The Reporter, v. 35, no. 6 (20 October 1966). pp 36-38.

Nuclear spread is basically destabilizing, but its strategic consequences can be contained since any former non-nuclear-weapon state will be unable to develop an inexpensive, strategically significant weapons system. Any new nation's weapons capability will transform a regional balance of power, but it will leave the superpowers relatively immune.

109. Scoville, Herbert Jr.

"'First Use' of Nuclear Weapons." Arms Control Today, v. 5, no. 7/8 (July/August 1975). pp 1-3.

A review of the concept of non-first-use and of the effect of US doctrine on nuclear weapons proliferation.

110. Scoville, Herbert Jr.

"A New Look at a Comprehensive Nuclear Test Ban." Stanford Journal of International Studies, v. 7 (Spring 1972). pp 45-63.

Provides background, analyzes security implications, and examines verification issues of a comprehensive test ban.

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111. Seaborg, Glenn T.

"Existing Arrangements for International Control of Warlike Material - 5: The United States Program of Bilateral Safeguards." Disarmament and Arms Control: An International Journal, v. 2 (1964). pp 422-432.

The first part of this article describes the US program's relationship with that of the IAEA, and the reason for US support for the development of international safeguards. A detailed history of the US program is given as an appendix.

112. Seaborg, Glenn T.

"The Promise of the International Atomic Energy Agency." Science, v. 158 (13 October 1967). pp 226-230.

A review of the history, role, programs, and achievements of the IAEA, and a projection of its future prospects.

113. Speth, J. Gustave; Tamplin, Arthur; Cochran, Thomas.

"Plutonium Recycle: The Fateful Step." The Bulletin of the Atomic Scientists, v. 30, no. 9 (November 1974).

Asserts that widespread plutonium reprocessing would foster a large industry, thereby increasing the risks of nuclear power. Safeguards adequate to deal with such an increase would of necessity impose considerable restrictions on civil liberties. Proposes some alternatives.

114. Starr, Chauncey.

"Nuclear Power and Weapons Proliferation: The Thin Link." Nuclear News, v. 20, no. 8 (June 1977). pp 54-57.

A critique of the Carter Administration's non-proliferation policies, and a suggestion of a more effective, international approach which would focus on a broader range of issues.

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115. Szasz, Paul C.

"The Adequacy of International Nuclear Safeguards." Journal of International Law and Economics, v. 10 (August-December 1975). pp 423-436.

116. Taylor, Theodore B.

"Nuclear Safeguards." Annual Review of Nuclear Science, v. 25 (1975). pp 407-421.

A brief overview of safeguards risks, and actions that are being or could be taken to reduce them.

117. "The NPT Review Conference and Nuclear Proliferation." Orbis, v. 19, no. 2 (Summer 1975). pp 316-320.

Analysis of the NPT Review Conference, and a description of its deliberations and consequences.

118. Tomlin, Y.

"Nuclear-Free Zones: How to Make Them Effective." International Affairs (Moscow), (August 1975). pp 67-72.

Reviews the history of nuclear-free zone proposals, and states two criticisms of the Treaty of Tlatelolco.

119A. Vendryes, Georges A.

"SuperPhenix: A Full-Scale Breeder Reactor." Scientific American, v. 236, no. 3 (March 1977). pp 26-35.

A review of the research and development of the French breeder reactor program, including the two previous breeders, but concentrating on SuperPhenix. Contains a concise, relatively nontechnical, and well-illustrated description of the operation of breeder reactors.

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119B. Weiss, Leonard.

"Nuclear Safeguards; a Congressional Perspective." Bulletin of Atomic Scientists, v. 34, no. 3 (March 1978). pp 27-33.

A history of nuclear nonproliferation policies culminating in the signing of the Nuclear Nonproliferation Act of 1978 on March 10, 1978. It reviews the motivating forces behind this legislation, reflecting congressional concern and thinking about nuclear export policies, nuclear safeguards and the risks of proliferation.

120. Vesa, Unto.

"The Revival of Proposals for Nuclear-Free Zones." Instant Research on Peace and Violence, v. 5, no. 1 (1975). pp 42-51.

An historical review of various types of nuclear-free zones, with special emphasis on the Treaty of Tlatelolco.

121. Villa, Brian Loring.

"A Confusion of Signals: James Franck, the Chicago Scientists, and Early Efforts to Stop the Bomb." The Bulletin of the Atomic Scientists, v. 31, no. 12 (December 1975). pp 36-43.

Examines the reasons that the warnings included in the Franck Report were not seriously considered by high-level policy makers.

122. Werth, Glenn C.

"The Soviet Program on Nuclear Explosives for the National Economy." Nuclear Technology, v. 11 (July 1971). pp 280-302.

This article, which is included in this special issue on nuclear explosions, summarizes seven recent Soviet publications which describe nine PNE applications and nine proposed projects.

123. Willrich, Mason

"Guarantees to Non-Nuclear Nations." Foreign Affairs, v. 49, no. 4 (July 1966). pp 683-692.

Explores possible components that would be necessary to create a credible nuclear guarantee

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to non-nuclear-weapons states.

124. Willrich, Mason; Marston, Philip M.  
"Prospects for a Uranium Cartel." Orbis, v. 19, no. 1  
(Spring 1975). pp. 166-184.

Outlines the nuclear fuel cycle and the basic supply/demand outlook worldwide. Examines the practicability of a cartel.

125. Wohlstetter, Albert.  
"Spreading the Bomb without Quite Breaking the Rules." Foreign Policy, no. 25 (Winter 1976/1977). pp 88-96, 145-179.

Reviews the history, current contradictions, and future options of US antiproliferation policy, with a special focus on plutonium.

126. "World List of Nuclear Power Plants as of June 30."  
Nuclear News. v. 20. no. 10. 1977. pp 73-90.

A bi-annual listing of nuclear power plants over 30 MWe that are operating, under construction, or on order.

127. York, Herbert F.  
"The Great Test-Ban Debate." Scientific American, v. 227 (November 1972). pp 15-23.

Analyzes and refutes arguments presented against the Limited Test Ban Treaty during the debate preceding that treaty, in an effort to evaluate the chances for and feasibility of a CTB.

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128. Zhelezov, R.

"Nuclear Explosions for Peaceful Purposes." International Affairs (Moscow), (August 1976). pp. 81-87.

Reviews the negotiation of the (1976) treaty between the USSR and the US, and the Protocol on Underground Nuclear Explosions for Peaceful Purposes which supplements the 1974 bilateral Threshold Test Ban Treaty.

## PERIODICALS CONSULTED

1. American Journal of International Law.
2. Annals of Nuclear Energy.
3. The Annals of the American Academy of Political and Social Sciences.
4. Annual Review of Nuclear Science.
5. Arms Control Today.
6. Atoms in Japan.
7. Aviation Week and Space Technology.
8. British Yearbook of International Law.

## PERIODICALS CONSULTED

9. Bulletin of Peace Proposals.
10. The Bulletin of the Atomic Scientists.
11. Cooperation and Conflict.
12. Disarmament and Arms Control: An International Journal.
13. Economic and Political Weekly.
14. Environmental Affairs.
15. EPRI Journal.
16. Foreign Affairs.

## PERIODICALS CONSULTED

17. Foreign Policy.

18. Harvard Civil Rights/Civil Liberties Review.

19. Indian Journal of International Law.

20. Instant Research on Peace and Violence.

21. International Affairs (Moscow).

22. International Conciliation.

23. International Organization.

24. International Security.

## PERIODICALS CONSULTED

25. Journal of Arms Control.

26. Journal of Conflict Resolution.

27. Michigan Law Review.

28. National Review.

29. Natural Resources Journal.

30. Naval War College Review.

31. New York Times.

32. Nuclear News.

## PERIODICALS CONSULTED

33. Nuclear Technology.

34. Orbis.

35. Potomac Review.

36. The Reporter.

37. Science.

38. Scientific American.

39. Stanford Journal of International Studies.

40. Survival.

**PERIODICALS CONSULTED**

41. Technology Review.

42. Virginia Law Review.

## GOVERNMENT DOCUMENTS

1. Barber, Richard J. Associates, Inc.

(IDC Nuclear Power Prospects 1975-1990: Commercial, Economic, and Security Implications. (Prepared for US ERDA, Division of International Security Affairs.) Springfield, Virginia: National Technical Information Service, 1975. 388 pp. (Report No. ERDA-52.)

Evaluates and estimates the potential market for products of the US nuclear industry in the developing countries, and analyzes some of the political, economic, and security implications of US nuclear technology export to those countries.

Introduction; Summary Highlights;  
(Ch 1) Energy Projections and Economic Change: The Case of Less Developed Countries; (Ch 2) Comparative Costs: Nuclear vs. Conventional Power; (Ch 3) The General Policy Environment and Its Affect on LDC Nuclear Power Market Potential; (Ch 4) Assessment of US and Foreign Capabilities in the International Competitive Environment for Production and Sale of Nuclear Power Plant Products and Services to LDC's; (Ch 5) Assessment of International and Domestic Implications of Expanding Exports of US Nuclear Power Products to LDC's;  
Appendices: (A) Annualized Cost Calculations; (B) Calculation of Nuclear Fuel Cycle Costs; (C) The Principle Competitors in Production and Sale of Nuclear Power Plant Products and Services to LDC's; (D) Safety Implications of Expanded Nuclear Power Exports to LDC's.

2. Carter, Governor James E.

Nuclear Energy and World Order. (Address to the United Nations, 13 May 1976.) Reprinted in the Congressional Record (4 June 1976). pp S8541-S8544.

A key Carter address, giving his views on a number of proliferation-related subjects, including nuclear power, reprocessing, enrichment, a comprehensive test ban, etc.

## GOVERNMENT DOCUMENTS

## 3. Donnelly, Warren H.

Commercial Nuclear Power in Europe: The Interaction of American Diplomacy With a New Technology. (A report prepared for the House Committee on Foreign Affairs, Subcommittee on National Security Policy and Scientific Developments by the Congressional Research Service.) Washington, D.C.: US GPO, 1972. 163 pp.

While the primary focus of this document is on US/European questions, an integral part of the discussion concerns the export of nuclear materials, the history of nuclear power, the NPT, safeguards, and the IAEA.

(Ch 1) Reasons, Purpose, and Scope; (Ch 2) Some Facts About Nuclear Power; (Ch 3) From Hiroshima to Atoms for Peace: Postwar Trends in Regional Multinational Cooperation in Europe; (Ch 4) Atoms for Peace: A Presidential Initiative; (Ch 5) Bilateral Agreements for US Technical Assistance to Commercial Nuclear Energy in Europe; (Ch 6) Creating an International Organization: The International Atomic Energy Agency; (Ch 7) Creating a Regional Nuclear Organization: The European Atomic Energy Community (Euratom); (Ch 8) Joint United States/Euratom Research and Development; (Ch 9) The Nuclear Energy Agency: Another Regional Approach to International Organization for Nuclear Energy; (Ch 10) US Fuel for European Nuclear Power; (Ch 11) The Non-Proliferation Treaty and Safeguards; (Ch 12) Some Issues Recapitulated; Glossary.

## 4. Donnelly, Warren H.

"Control of Proliferation of Nuclear Weapons." (A Congressional Research Service Paper.) Congressional Record (18 June 1976). pp E3464-E3467.

An orderly and brief summary of the various options available to the United States to limit and control proliferation, and ranging in magnitude from moderate to drastic.

## GOVERNMENT DOCUMENTS

5. Donnelly, Warren H.; Rather, Barbara.

International Proliferation of Nuclear Technology.  
(Prepared for House Committee on International and  
Insular Affairs, Subcommittee on Energy and  
Environment by the Congressional Research Service)  
94th Cong., 2d sess. Wash, D.C.:US GPO, April 1976.

(From Letter of Transmittal to the Subcommittee):  
"This report examines the oversight hearings held  
by the Subcommittee in July, 1974, and in April,  
May, and July of 1975, for insights into problems  
of proliferation of nuclear technology and to  
identify matters and issues that may warrant  
further congressional attention."  
Summarizes testimony during hearings, and  
indicates major aspects of important issues.

Part I: Summary of Observations and Issues:

(A) Overall Commentary; (B) Specific  
Insights; (C) Potential Measures for  
Limiting Proliferation;

Part II: Hearings of the Subcommittee on  
Energy and the Environment: (A) The Problem  
of Proliferation; (B) Background of the  
Hearings; (C) Purpose of the Hearings; (D)  
Organization of the Hearings;

Part III: The Challenge of Nuclear  
Proliferation: (A) The Status of  
Proliferation; (B) Mechanisms of  
Proliferation; (C) Troublesome Cases; (D)  
Peaceful Nuclear Explosives;

Part IV: Domestic Nuclear Safeguards: (A)  
Dimensions of the US Safeguards Problem; (B)  
Licensing of Nuclear Materials; (C)  
Safeguards and Physical Security; (D) The  
Adequacy of Safeguards; (E) Government  
Responsibilities for Nuclear Safeguards;

Part V: Government Control of Nuclear  
Exports: (A) Commercial Transactions; (B)  
NRC Export Licenses; (C) Department of  
Commerce Export Licenses; (D) ERDA Approval  
of Technology Exports; (E) Legislation  
Affecting Nuclear Exports;

Part VI: The International Framework for  
Limiting Proliferation: (A) The World  
Nuclear Market; (B) International Agreements  
for Cooperation; (C) The Non-Proliferation  
Treaty; (D) International Atomic Energy  
Agency Safeguards; (E) International or  
Regional Fuel Cycle Facilities; (F) Informal

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## Agreement Among Nuclear Supplier Nations.

6. Donnelly, Warren H.; Rather, Barbara.

Nuclear Weapons Proliferation and the International Atomic Energy Agency. (An analytical report prepared for the Senate Committee on Government Operations by the Congressional Research Service.) 94th Congress, 2nd Session. Washington, D.C.: US GPO, 1976. 325 pp.

An analysis of the role of the IAEA in limiting the future proliferation of the ability to make nuclear weapons in a world committed to increasing its use of nuclear power.

7. Donnelly, Warren H.; Rather, Barbara.

United States Agreements for Cooperation in Atomic Energy. (An analysis prepared for the Senate Committee on Government Operations by the Congressional Research Service.) Washington, D.C.: US GPO, 1976. 183 pp.

A report, based on the examination of 32 agreements for cooperation with foreign nations and international organizations, which examines these US agreements in relation to the proliferation of the ability to make nuclear weapons, and in relation to pending legislation.

(Ch 1) Summary of Observations and Issues; (Ch 2) Purpose, Approach, and Information Sources; (Ch 3) Bilateral Agreements: What They Are and Why?; (Ch 4) Provisions of Special Relevance to Proliferation; (Ch 5) Principal Features of Agreements for Cooperation; (Ch 6) Commentary; Appendices.

8. Farley, Philip J.

"The Advantages of a Comprehensive Nuclear Test Ban and the Question of Verification." US Department of State Bulletin. v. 65, no. 1677 (16 August 1971). pp 182-185.

States that a CTB is a foremost objective; it

## GOVERNMENT DOCUMENTS

would act as a brake on the US/Soviet arms race, would contribute to non-proliferation and arms control efforts, and allay fears of the environmental impact of underground testing. Notes that effectiveness is contingent on adequate verification.

## 9. Fisher, Adrian S.

"U.S. Views on Nuclear Weapon Material Cutoff Agreement and Verification of Comprehensive Nuclear Test Ban." US Department of State Bulletin, v. 60, no. 1559 (12 May 1969). pp 409-413.

Statement to Eighteen Nation Disarmament Conference enunciating US position on the technical and political aspects of a CTB, and noting the necessity for on-site inspection.

## 10. Foster, William C.

"Obligations of the Parties to the Treaty on the Non-proliferation of Nuclear Weapons." US Department of State Bulletin, v. 59, no. 1538 (16 December 1968). pp 637-643.

Statement to UN Committee stressing vital importance of NPT, and outlining the obligations of the parties.

## 11. Ikle, Fred C.

"The Dilemma of Controlling the Spread of Nuclear Weapons While Promoting Peaceful Technology." The Department of State Bulletin. v. 71 (21 October 1974). pp 543-547.

A statement on behalf of President Ford which outlines various nuclear energy/proliferation fallacies, including: the closed fuel cycle; transfer of nuclear technology; safeguards and disarmament.

## GOVERNMENT DOCUMENTS

## 12. International Atomic Energy Agency.

"The Agency's Safeguards System, 1965, as Provisionally Extended in 1966 and 1968." INFCIRC/66/Revision 2. Vienna, Austria: IAEA, 16 September 1968.

This is the basic set of guidelines for safeguards agreements with non-NPT states. While the individual agreements vary from country to country, they all follow this format. Compare to INFCIRC/153, which covers agreements with parties to the NPT, below.

## 13. International Atomic Energy Agency.

"Heads of State Welcome NPT." IAEA Bulletin, v. 10, no. 4 (1968). pp 17-24.

Texts of statements of the heads of state of the US, United Kingdom, and USSR on the occasion of the signing of the NPT.

## 14. International Atomic Energy Agency.

IAEA Bulletin, v. 17, no. 2 (April 1975).

This issue is devoted to various aspects of proliferation and safeguards as they impact on the IAEA. Concise, but non-technical and very useful to the non-specialist. See table of contents (below) for specific topics.

1. How to Strengthen the Nuclear Non-Proliferation Treaty; 2. Nuclear Power Growth and Safeguards 1975-1985; 3. The Technical Objective of Safeguards; 4. System of Accounting for and Control of Nuclear Material; 5. A National Control System; 6. Physical Protection of Nuclear Material; 7. Physical Protection of Radioactive Material in Transport; 8. Technical Assistance and Article IV of the NPT; 9. Peaceful Nuclear Explosions.

Also contains a map of the world showing which states have ratified and/or signed the NPT (p 31) and a chart of state's

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participation in the IAEA.

## 15. International Atomic Energy Agency.

IAEA Bulletin. v. 17, no. 4 (August 1975). 60 pp.

This issue of the IAEA Bulletin contains a number of valuable articles, and gives an interesting insight into the perspective held by the Agency on the issue of proliferation.

(1) Management of Radioactive Wastes. (2) Manpower Requirements for Future Nuclear Power Programs. (3) Review of the NPT Conference. (4) Risk Assessment: The Joint IAEA/IIASA Research Project. (5) IAEA Technical Cooperation Activities: Europe and the Middle East.

## 16. International Atomic Energy Agency.

"Ideas for Peaceful Nuclear Explosions in USSR." IAEA Bulletin, v. 12, no. 2 (1970). pp 11-21.

A summary of a series of papers by Soviet scientists discussing the planned uses for PNE's, including descriptions of a number of intended projects such as canal excavation and mining uses.

## 17. International Atomic Energy Agency.

"The Non-Proliferation Treaty and the IAEA." IAEA Bulletin, v. 10, no. 4 (1968). pp 3-9.

Describes the new role and changes imposed upon the IAEA by the NPT, and gives a brief synopsis of the course of the negotiations.

## 18. International Atomic Energy Agency.

"Nuclear Power and Its Fuel Cycle." IAEA Bulletin, v. 18, no. 5/6 (1976).

## GOVERNMENT DOCUMENTS

A series of articles written as an introduction to the Salzburg Conference of the same title, held 2 May 1976. Designed to give an indication of the scope of the Conference. See table of contents (below) for specific topics covered.

1. Introduction; 2. Estimates for Future Demand for Uranium and Nuclear Fuel Cycle Services; 3. Trends in Uranium Supply; 4. Mathematical Modelling of Regional Fuel Cycle Centres; 5. Safety Codes and Guides for Nuclear Power Plants; 6. Radioactive Waste Management; 7. Methods for Determining the Release of Radioactive Material into the Environment; 8. Public Attitudes toward Nuclear Power.

19. International Atomic Energy Agency.

Peaceful Uses of Atomic Energy. (Proceedings of the Fourth International Conference on the Peaceful Uses of Atomic Energy, Geneva, 6-16 September 1971.) 15 Volumes. (A/CONF 49). New York: United Nations, 1972. Vienna, Austria: IAEA, 1972.

This massive, multi-volume work contains information in depth on every aspect of nuclear power and other applications of nuclear energy, such as medical and industrial uses. Technically complex and involved.

20. International Atomic Energy Agency.

"The Physical Protection of Nuclear Materials." INFCIRC/225. Vienna, Austria: IAEA, September 1975.

The IAEA's guidelines for establishing a physical protection system. As the Agency has no specific control in matters of physical protection in any state, these constitute recommendations only.

## GOVERNMENT DOCUMENTS

## 21. International Atomic Energy Agency.

Regional Nuclear Fuel Cycle Centres: Volume I.  
 (Summary 1977 Report of the IAEA Study Project.)  
 STI/PUB/445. Vienna, Austria: IAEA, 1977. 127 pp.

A synthesis of the Study Project on Regional Fuel Cycle Centers, which was initiated by the IAEA in 1975 to examine the economic, safety, safeguards, and security aspects of a multinational nuclear fuel cycle approach and to develop a methodology whereby member states might make appropriate decisions.

Introduction;

General Presentation: (Ch 1) The Agency's RFCC Concept and Study Project; (Ch 2) Background; (Ch 3) Alternative Approaches;

Results and Conclusions: (Ch 4) Non-Proliferation and Safeguards Considerations; (Ch 5) Radioactive Waste Management Considerations; (Ch 6) Economic Considerations;

Implementation of the RFCC Concept and Possible Roles of the IAEA;

Summaries of the Basic Studies of the RFCC Project: (Ch 7) Economic Evaluation of Alternative Fuel Cycle Strategies; (Ch 8)

Analytical Methodology; (Ch 9) Non-Proliferation and Safeguards; (Ch 10) Physical Protection; (Ch 11) Nuclear Material Control; (Ch 12)

Institutional-Legal Arrangements; (Ch 13) Organization and Administration; (Ch 14)

Financing - General Considerations; (Ch 15) Health, Safety, and Environment; (Ch 16)

Spent Fuel Storage; (Ch 17) Fuel Reprocessing; (Ch 18) Mixed Oxide Fuel Fabrication; (Ch 19) Waste Management; (Ch 20) Transport of Radioactive Materials;

Appendices.

## 22. International Atomic Energy Agency.

Regional Nuclear Fuel Cycle Centres: Volume II.  
 (Basic studies of the 1977 Report of the IAEA Study Project.) STI/PUB/445. Vienna, Austria: IAEA, 1977. 306 pp.

Contains the full reports of the basic studies of

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the Project, summaries of which may be found in Volume I. (Previous Entry.)

(Ch 1) Scope, Objectives, and Organization of Work; (Ch 2) Relationship of Volume I to Volume II; (Ch 3) Non-Proliferation and Safeguards; (Ch 4) Physical Protection; (Ch 5) Nuclear Material Control; (Ch 6) Institutional-Legal Arrangements; (Ch 7) Organization and Administration; (Ch 8) Financing; (Ch 9) Health, Safety, and Environment; (Ch 10) Spent Fuel Storage; (Ch 11) Fuel Reprocessing; (Ch 12) Mixed Oxide Fuel Fabrication; (Ch 13) Waste Management; (Ch 14) Transport of Radioactive Materials; (Ch 15) Description of Mathematical Models and Computer Programs; (Ch 16) Cost Data Assumptions, Constraints, and Other Factors Related to Economic Analysis; (Ch 17) Economic Studies and Cost Evaluations.

23. International Atomic Energy Agency.

A Short History of Non-Proliferation. Vienna,  
Austria: IAEA, February 1976. 50 pp.

A brief but complete introduction and overview of the history of nonproliferation, with particular emphasis on the role of the IAEA.

24. International Atomic Energy Agency.

"The Structure and Content of Agreements Between the Agency and States Required in Connection with the Treaty on the Non-Proliferation of Nuclear Weapons." INFCIRC/153. Vienna, Austria: IAEA, May, 1971.

This document gives the basic guidelines for safeguards agreements between the IAEA and parties to the NPT, as called for by the treaty. Compare to INFCIRC/66, which deals with non-NPT agreements, above.

## GOVERNMENT DOCUMENTS

25. Lambert, Robert W.

Review of International Negotiations on the Cessation of Nuclear Weapons Tests September 1962 - September 1965. Washington D.C.: Arms Control and Disarmament Agency (Publication no. 32) 1966.

Focuses on the historical review of efforts to promote a test ban treaty. Analyzes the period during which the Limited Test Ban Treaty was negotiated, signed, and ratified. Discusses People's Republic of China's first two nuclear tests, and calls for a Comprehensive Test Ban.

26. Meckoni, Vinay.

"Regional Nuclear Fuel Cycle Centres." IAEA Bulletin, v. 18, no. 1 (February 1976). pp 2-11.

A brief discussion of the IAEA's study project on Regional Fuel Cycle Centers (RFCC), including descriptions of several alternative models.

27. Nye, Joseph S. Jr.

"Planning a Safeguardable Nuclear Future." Department of State Bulletin, v. 77, no. 1989 (8 August 1977). pp 183-190.

A major statement and explanation of US proliferation policy, noting that the US must follow a very strict line on safeguards, continued embargo of exports of sensitive technology, and by asking other nations to explore alternatives before becoming committed to such technologies, and providing incentives for them to do so. (This speech may also be found in The Bulletin of the Atomic Scientists, v. 33, no. 8 (October 1977). pp 38-42.)

28. Pederson, Ole.

"Developments in the Uranium Enrichment Industry." IAEA Bulletin, v. 19, no. 1 (February 1977). pp 40-52.

## GOVERNMENT DOCUMENTS

Excellent, brief, non-technical description of enrichment technologies, including lists of enrichment facilities world-wide and international suppliers.

## 29. President of the United States (James E. Carter).

"Address Before the Permanent Council of the Organization of American States at the Pan American Union, Washington, D.C. (April 14)." Department of State Bulletin, v. 76, no. 1976 (9 May 1977). pp 453-457.

Text of the announcement that the US would sign Additional Protocol I of the Treaty of Tlatelolco, which prohibits signatories from placing nuclear weapons in the zone.

## 30. President of the United States (Gerald R. Ford).

"Statement by the President on Nuclear Policy." Weekly Compilation of Presidential Documents (1 November 1976). pp 1624-1631.

Text of the President's statement on nuclear energy policy, with particular emphasis on reprocessing, recycling, and increased diplomatic efforts to curb proliferation. This document is also available from the US Arms Control and Disarmament Agency, under the title Nuclear Policy, published in 1976.

## 31. President of the United States (Gerald R. Ford).

Treaties With the Union of Soviet Socialist Republics on the Limitation of Underground Nuclear Weapon Tests and on Underground Nuclear Explosions for Peaceful Purposes, with Protocols. (Senate Executive N.) 94th Congress, 2nd Session. Washington, D.C.: US GPO, 1976. 23 pp.

Official letter of transmittal to the Senate from President Ford of the Threshold Test Ban Treaty of 1974 and the PNE Treaty of 1976, accompanied

## GOVERNMENT DOCUMENTS

by the full texts of the treaties and protocols.

32. Schlesinger, Secretary of Defense James R.  
(Statements on First-Use of Nuclear Weapons Before the Godfrey Sperling Group.) Washington, D.C.: Department of Defense News Release, July 1, 1975. 16 pp.

A detailed discussion of the controversy over the first use of nuclear weapons by the then Secretary of State.

33. Smyth, Henry  
"Nuclear Power and Proliferation." Department of State Bulletin, v. 54 (3 January 1966). pp 28-36.

Discusses which measures should be taken to promote peaceful applications of nuclear energy without enhancing proliferation. Review of efforts toward this goal, and of the advantages and important role of the IAEA.

34. Ungerer, Werner, et. al.  
"Safeguards: Five Views." IAEA Bulletin, v. 13, no. 3 (1971) pp 2-13.

Five of the principal negotiators of the basic document on which IAEA safeguards agreements as called for under the NPT are based (IAEA INFCIRC/153) discuss the issues raised during the negotiations from their personal perspectives. Appended to this article is the text of INFCIRC/153.

35. United Nations.

Comprehensive Study of the Question of Nuclear-Weapon-Free Zones in All Its Aspects. Special Report of the Conference of the Committee on Disarmament. A/10027/Add.1. New York: United Nations,

## GOVERNMENT DOCUMENTS

1976. 98 pp.

Gives perhaps the most concise and complete history of nuclear-weapon-free zone proposals available. Covers efforts prior to the Treaty of Tlatelolco, and provides a general listing of the prerequisites to the establishment of a nuclear-weapon-free zone in any area of the globe. Also gives history of Tlatelolco.

I. Introduction. II. Historical Background of Military Denuclearization by Areas. III. Concept of Nuclear-Weapon-Free Zones. IV. Responsibilities of States Within the Zone and of other States. V. Verification and Control. VI. Nuclear-Weapon-Free Zones and International Law. VII. Peaceful Uses of Nuclear Energy. VIII. Conclusions.

36. United Nations.

"Effects of the Possible Use of Nuclear Weapons and the Security and Economic Implications for States of the Acquisition and Further Development of these Weapons." UN Report A/6858. New York: United Nations, 1968. 76 pp.

A report prepared in compliance with General Assembly Resolution 2162A (XXI) of 5 December 1966, with the assistance of a group of experts.

(Ch 1) Effects of the Possible Use of Nuclear Weapons; (Ch 2) Economic Implications of the Acquisition and Further Development of Nuclear Weapons; (Ch 3) Security Implications of the Acquisition and Further Development of Nuclear Weapons; (Annex 1) General Characteristics of Nuclear Explosions; (Annex 2) General Effects of Nuclear Radiation; (Annex 3) References; (Annex 4) Basic Costs of Nuclear Warheads.

37. United Nations.

Proceedings of the Third International Conference on the Peaceful Uses of Atomic Energy. (Held in Geneva, 31 August - 9 September 1964.) 16 Volumes. New York: United Nations, 1965.

## GOVERNMENT DOCUMENTS

An extremely comprehensive series. Contents (below) lists Volume titles.

(Vol 1) Progress in Atomic Energy; (Vol 2) Reactor Physics; (Vol 3) Reactor Studies and Performance; (Vol 4) Reactor Control; (Vol 5) Nuclear Reactors - 1. Gas-cooled and Water-Cooled Reactors; (Vol 6) Nuclear Reactors - 2. Fast Reactors and Advanced Concepts; (Vol 7) Research and Testing Reactors; (Vol 8) Reactor Engineering and Equipment; (Vol 9) Reactor Materials; (Vol 10) Nuclear Fuels - 1. Fabrication and Reprocessing; (Vol 11) Nuclear Fuels - 2. Types and Economics; (Vol 12) Nuclear Fuels - 3. Raw Materials; (Vol 13) Nuclear Safety; (Vol 14) Environmental Aspects of Atomic Energy and Waste Management; (Vol 15) Special Aspects of Nuclear Energy and Isotope Applications; (Vol 16) List of Papers and Indexes.

## 38. US Arms Control and Disarmament Agency.

Arms Control and Disarmament Agreements: Texts and History of Negotiations. Publication 94. Washington, D.C.: US GPO, 1977. 186 pp.

(From the Foreword) "This publication contains the texts of all major arms control and disarmament agreements in which the United States has been a participant since 1925, as well as lists of Parties to those agreements. Each agreement is preceded by a brief background discussion prepared by the United States Arms Control and Disarmament Agency.

1. Geneva Protocol; 2. The Antarctic Treaty;
3. "Hot Line" Agreement; 4. Limited Test Ban Treaty; 5. Outer Space Treaty; 6. Treaty for the Prohibition of Nuclear Weapons in Latin America; 7. Non-Proliferation Treaty; 8. Seabed Arms Control Treaty; 9. "Accidents Measures" Agreement; 10. "Hot Line" Modernization Agreement; 11. Biological Weapons Convention; 12. SALT; 13. ABM Treaty; 14. Interim Agreement; 15. ABM Protocol; 16. Prevention of Nuclear War; 17. Threshold Test Ban and Protocol; 18.

## GOVERNMENT DOCUMENTS

Underground PNE Ban and Protocol; 19.  
Environmental Modification Ban.

## 39. US Arms Control and Disarmament Agency.

Documents on Disarmament. Washington, D.C.: US GPO.

An annual compilation by ACDA, beginning in 1961, and containing a great deal of source material on disarmament and nonproliferation. For example, the 1967 edition (Publication 46) has many references on the NPT and the Non-Nuclear-Weapons States Conference.

## 40. US Arms Control and Disarmament Agency.

International Negotiations on Ending Nuclear Weapon Tests: September 1961 - September 1962. Publication 9. Washington, D.C.: US GPO, 1962. 333 pp.

An historical narrative and a selection of pertinent documents, statements, correspondence, and speeches related to the negotiations.

## 41. US Arms Control and Disarmament Agency.

International Negotiations on the Treaty on the Non-Proliferation of Nuclear Weapons. Publication 48. Washington, D.C.: US GPO, 1969. 183 pp.

An historical review of the public international negotiations of the NPT in the Eighteen Nation Disarmament Conference, in the UN General Assembly, and in other forums, from 1957 to 1968.

## 42. US Arms Control and Disarmament Agency.

Peaceful Nuclear Power Versus Nuclear Bombs: Maintaining a Dividing Line. Publication 91. Washington, D.C.: US GPO, 1976. 6 pp.

A brief discussion of alternative nuclear power cycles and their potential for proliferation.

## GOVERNMENT DOCUMENTS

Also gives some background on other aspects of the nuclear fuel cycle such as supply and history, as well as the comparative merits of Light Water Reactors versus CANDU Reactors.

43. US Congress. House. Committee on Interior and Insular Affairs. Subcommittee on Energy and the Environment. Nuclear Energy: Part 3: International Proliferation of Nuclear Technology. Oversight Hearings: 21, 22, 24 July 1975. 94th Congress, 1st Session. Washington, D.C.: US GPO, 1975. 118 pp.

Testimony by six expert witnesses on the international framework in which nuclear exports take place.

44. US Congress. House. Committee on Interior and Insular Affairs. Subcommittee on Energy and the Environment. Nuclear Reactor Security Against Sabotage. Oversight Hearing: 5 May 1977. 95th Congress, 1st Session. Washington, D.C.: US GPO, 1977. 258 pp.

Although this hearing deals primarily with the domestic nuclear industry, it contains some very useful data with respect to the potential effects of nuclear reactor sabotage as a form of non-state-adversary proliferation.

45. US Congress. House. Committee on Interior and Insular Affairs. Subcommittee on Energy and the Environment. Recycling of Plutonium. Oversight Hearings: September 20, 21, 28, 1976. 94th Congress, 2nd Session. Washington, D.C.: US GPO, 1977. 1112 pp.

This massive volume looks into the question of fuel recycle, and also examines some alternative energy sources, such as thermal and wind power.

## GOVERNMENT DOCUMENTS

46. US Congress. House. Committee on International Relations.  
Chronologies of Major Developments in Selected Areas of International Relations. Published Monthly, Commencing January 1977. Washington, D.C.: US GPO.

Consists of brief summaries of the reportage of major events in international relations, broken down by both category and date. Arms Control constitutes one category, and includes proliferation.

47. US Congress. House. Committee on International Relations.  
Nuclear Antiproliferation Act of 1977. Hearings and Markup: 4 April; 19, 26 May; 27, 29 July; 1, 2 August 1977. 95th Congress, 1st Session. Washington, D.C.: US GPO, 1977. 418 pp.

This document serves to provide both the history of the legislation (HR 8638) and a good overview of the many factors involved in the formation of current US non-proliferation policies. A wide range of opinion emerges during the testimony, indicative of the controversy that surrounds the issue. Of particular interest in the Appendices is the exchange of letters between Representative Bingham and Secretary of State Vance (Appendix 1).

- (a) Testimony: 4 April; 19, 26 May.
- (b) Markup: 27, 29 July; 1, 2 August.
- (c) Material Submitted for the Record.
- (d) Appendices.

48. US Congress. House. Committee on International Relations. Subcommittee on International Security and Scientific Affairs.  
First Use of Nuclear Weapons: Preserving Responsible Control. Hearings: 16, 18, 23, 25 March 1976. 94th Congress, 2nd Session. Washington, D.C.: US GPO, 1976. 246 pp.

Of particular note in this document is the testimony of Philip J. Farley and Henry S. Rowen on the non-proliferation aspects of no-first-use. The several proposals under consideration by the

## GOVERNMENT DOCUMENTS

subcommittee are discussed, and during the course of the testimony, a very good overview of the issues involved emerges.

Part 1 - Review of the Legislative Proposals Regarding First Use-First Strike of Nuclear Weapons.

Part 2 - A Review of the Command and Control System by Which the President Has Delegated His Authority to Use Nuclear Weapons: Past Deficiencies and Present Adequacy.

Part 3 - (a) Command and Control: What Objectives Should an Effective System Seek to Achieve? (b) First Use: Non-Proliferation Aspects.

Part 4 - Executive Branch Position on First Use-First Strike Policy.

49. US Congress. House. Committee on International Relations. Subcommittee on International Security and Scientific Affairs.

Nuclear Proliferation: Future US Foreign Policy Implications. Hearings: October 21, 23, 28, 30; November 4, 5, 1975. 94th Congress, 1st Session. Washington, D.C.: US GPO, 1975. 506 pp.

Testimony of 16 expert witnesses on various US policy options concerning nonproliferation.

50. US Congress. House. Committee on International Relations. Subcommittee on International Security and Scientific Affairs.

Nuclear Proliferation and Reprocessing. Hearing: June 7, 1976. 94th Congress, 2nd Session. Washington, D.C.: US GPO, 1976. 32 pp.

Consists of the testimony of Dr. Henry Rowen and NRC Commissioner Victor Gilinsky on a proposed amendment to the Export Administration Act Amendment of 1976. In the course of the testimony, a number of interesting perspectives appear dealing with both domestic and international aspects of the problem of proliferation.

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## 51. US Congress. Joint Committee on Atomic Energy.

Atomic Energy Legislation Through 94th Congress, 2d Session. 95th Congress, 1st Session. Washington, D.C.: US GPO, 1977. 546 pp.

Contains the major legislation related to nuclear energy that passed through the Joint Committee over a period of thirty years, as well as appropriations for the government's atomic energy program.

(Ch 1) The Atomic Energy Act of 1954; (Ch 2) The Energy Reorganization Act of 1974; (Ch 3) AEC Authorization Acts from Fiscal Year 1956 Through Fiscal Year 1975; (Ch 4) NRC Authorization Acts Fiscal Years 1975 (Supplemental), 1976, and 1977; (Ch 5) ERDA Authorization Acts; (Ch 6) Euratom Cooperation Act of 1958; (Ch 7) IAEA Participation Act of 1957; (Ch 8) Atomic Energy Community Act of 1955; Appendices.

## 52. US Congress. Joint Committee on Atomic Energy.

Export Reorganization Act of 1976. Hearings on S 1439, S 3770, and HR 15273: 28 July; 31 August 1976. 94th Congress, 2nd Session. Washington, D.C.: US GPO, 1976. 252 pp.

Testimony from representatives of eight government agencies effected by the Act. In particular, testimony from ACDA and ERDA representatives on the sections which would rigorously tighten US export policies and procedures.

## 53. US Congress. Joint Committee on Atomic Energy.

Non-Proliferation of Nuclear Weapons. Hearings on Senate Resolution 179: 23 February; 1, 7 March 1966. 89th Congress, 2nd Session. Washington, D.C.: US GPO, 1966. 179 pp.

Testimony of Secretary of State Rusk, Robert McNamara, and William Foster on the resolution, which supported President Johnson's efforts to achieve an international agreement halting the

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spread of nuclear weapons.

54. US Congress. Library of Congress. Congressional Research Service (Environment and Natural Resources Policy Division).

Nuclear Proliferation Factbook. (Prepared for the House Committee on International Relations, Subcommittee on International Economic Policy and Trade, and the Senate Committee on Governmental Affairs, Subcommittee on Energy, Nuclear Proliferation, and Federal Services.) 95th Congress, 1st Session. Washington, D.C.: US GPO, 1977. 597 pp.

Included in this Factbook is a wide-ranging selection of basic documents and of national and international statistical data pertinent to the study of the proliferation of nuclear energy and weapons. Contains three analytical papers dealing with production of plutonium by simple production reactors and by power reactors.

(1) Basic Documents; (2) Uranium Supply and Demand; (3) The Nuclear Fuel Cycle; (4) Uranium Enrichment; (5) Fuel Reprocessing; (6) Nuclear Reactors - Power and Research; (7) Nuclear Exports and Assistance; (8) Routes to Proliferation; (9) Peaceful Nuclear Explosives; (10) Nuclear Weapons; (11) Safeguards; Appendices; Sources; Bibliography on Nuclear Proliferation 1976-1977; La Marsh Papers: (A) The Production of Plutonium Isotopes and  $^{233}\text{U}$  in American and Canadian Power Reactors; (B) On Construction of Plutonium Producing Reactors by Small and/or Developing Nations; (C) On the Extraction of Plutonium from Reactor Fuel by Small and/or Developing Nations.

55. US Congress. Library of Congress. Congressional Research Service.

Facts on Nuclear Proliferation: A Handbook. (Prepared for the Senate Committee on Government Operations.) 95th Congress, 1st Session. Washington, D.C.: US GPO, 1975. 259 pp.

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This Handbook brings together statistics, tables, graphs, charts, and introductory passages covering the various issue-areas which have an effect on non-proliferation policy.

(1) Basic Documents; (2) The Nuclear Fuel Cycle; (3) Uranium Resources and Demand; (4) Uranium Exploration, Mining, and Milling; (5) Uranium Enrichment; (6) Fuel Reprocessing; (7) Fuel Fabrication; (8) Nuclear Power; (9) Nuclear Trade; (10) Peaceful Nuclear Explosions; (11) Weapons Implications; (12) Safeguards.

## 56. US Congress. Senate. Committee on Armed Services.

Military Implications of the Treaty on the Non-Proliferation of Nuclear Weapons. Hearings: 27, 28 February 1969. 91st Congress, 1st Session. Washington, D.C.: US GPO, 1969. 141 pp.

Testimony regarding the advisability of the US becoming a party to the NPT. Includes the Treaty accompanied by President Johnson's letter of transmittal, asking for Congressional ratification.

## 57. US Congress. Senate. Committee on Foreign Relations.

Additional Protocol II to Latin American Nuclear-Free Zone Treaty. Hearings on Executive H: 10-12, 17 July 1968; 18, 20 February 1969. 90th Congress, 2nd Session; 91st Congress, 1st Session. 2 Volumes. Washington, D.C.: US GPO, 1968-1969.

## 58. US Congress. Senate. Committee on Foreign Relations.

Nonproliferation Treaty. Hearings: 10, 11, 12, 17 July 1968; 18, 20 February 1969. 90th Congress, 1st and 2nd Sessions (Executive H). Washington, D.C.: US GPO, 1968 (Part 1) 300 pp.; 1969 (Part 2) 219 pp.

Hearings on the NPT, with testimony from Secretary of State Rusk, ACDA Director William C.

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Foster, Secretary of State William Rogers, and Gerard Smith from ACDA, among others. A very extensive review of the treaty, its goals and implications, including an elaborate analysis of the guiding principles and specific articles by Dr. Foster. Includes the text of the treaty and a list of signatories as of July 1, 1968.

59. US Congress. Senate. Committee on Foreign Relations.  
Statute of the International Atomic Energy Agency.  
Hearings. 85th Congress, 1st Session. Washington, D.C.: US GPO, 1957.

Testimony on the IAEA and the US relationship and obligations to it.

60. US Congress. Senate. Committee on Governmental Affairs.  
Subcommittee on Energy, Nuclear Proliferation, and Federal Services.  
Office of Technology Assessment Report on Nuclear Proliferation Safeguards. Hearing: 4 April 1977. 95th Congress, 1st Session. Washington, D.C.: US GPO, 1977. 83 pp.

Testimony evaluating the OTA report, Nuclear Proliferation and Safeguards. Includes testimony by Drs. Paul Doty and Thomas Schelling of Harvard University.  
For the full report, see the entry under US Office of Technology Assessment (below).

61. US Congress. Senate. Committee on Government Operations.  
Export Reorganization Act of 1975. Hearings: 24, 30 April; 1 May 1975. 94th Congress, 1st Session. Washington, D.C.: US GPO, 1975. 533 pp.

Opening statements by three Senators, and testimony and written answers to questions from 14 expert witnesses concerning this Act - "A Bill to Reorganize Certain Functions of the Federal Government to Promote More Efficient

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Administration of Such Functions."

Witnesses: Dr. Fred Ikle (US ACDA); Dr. David Rosenbaum (University of Virginia Law School); Mason Willrich (University of Virginia); General Edward Giller, et. al. (US ERDA); William Anders (US NRC); Dr. Dixy Lee Ray (US Department of State); Dr. Robert Seamans (US ERDA); John Tabor (US Department of Commerce); Dr. Gerald Tape (US Representative to the IAEA); Eldon Greenberg (Environmental Groups); Carl Walske (Atomic Industrial Forum); Adrian Fisher (Georgetown University Law School); Admiral Gene LaRocque (Center for Defense Information).

62. US Congress. Senate. Committee on Government Operations.

Export Reorganization Act of 1976. Hearings: 19, 20, 29, 30 January; 9 March 1976. 94th Congress, 2nd Session. Washington, D.C.: US GPO, 1976. 2048 pp.

Testimony of 28 expert witnesses, grouped in panels, concerning various aspects of the proliferation problem.

(I) Nuclear Proliferation: Historical and Scientific Perspectives: Lilienthal, Bethe, York; (II) Development of Incentives for Non-Proliferation of Nuclear Weapons: Scheinman, Frank, Willrich, Rathjens; (III) Current Trends in Nuclear Trade: Fisher, Donnelly, Baker, Doub, Carnesale; (IV) Nuclear Export Licensing and Safeguards: Taylor, Scoville, Brown, Greenberg; (V) The Adequacy of Safeguards on US Nuclear Exports: Gilinsky, Starbird, Kratzer; (VI) The Nuclear Industry and Nuclear Proliferation: Muntzing, Porter, Stathakis; (VII) US Nuclear Export Policies and Practices, and the IAEA: Fasick, Ikle, Anders, Ingersoll, Fri; (VIII) Secretary of State Kissinger on the Problem of Nuclear Proliferation; (Appendix A) Supplementary Documents and Agency Responses; (Appendix B) Material Requested or Submitted for the Record; (Appendix C) Additional Material.

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63. US Congress. Senate. Committee on Government Operations.  
Export Reorganization Act of 1976. Senate Report  
94-875 to Accompany S. 1439. 94th Congress, 2nd  
Session. Washington, D.C.: US GPO, 1976. 38 pp.  
  
A report which explains the effect on nuclear  
exports of the Export Reorganization Act of 1976  
(S. 1439).

64. US Congress. Senate. Committee on Government Operations.  
Peaceful Nuclear Exports and Weapons Proliferation: A Compendium. Committee Print. 94th Congress, 1st  
Session. Washington, D.C.: US GPO, 1975. 1355 pp.  
  
Provides a selected but comprehensive review of  
the legal, technical, and policy aspects of the  
issue of proliferation. An excellent overview  
document, using excerpts from many  
non-governmental publications.

65. US Department of Justice. Law Enforcement Assistance  
Administration.  
Facing Tomorrow's Terrorist Incident Today.  
Washington, D.C.: US Department of Justice, 1977. 92  
pp.  
  
An analysis of the potential threats from  
terrorism, largely centered on the US. Discusses  
responses and preparedness, and other policy  
options at both domestic and international  
levels.  
  
(Ch 1) Introduction; (Ch 2) Threat  
Assessment and Risk Taking; (Ch 3) Hardening  
the Target; (Ch 4) Fundamental Policy  
Choices; (Ch 5) Incident Management and  
Damage Limitation; (Ch 6) A Program for  
Action; (Ch 7) Technical Appendix:  
Additional Insights.

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## 66. US Department of State.

Geneva Conference on the Discontinuance of Nuclear Weapon Tests: History and Analysis of Negotiations. Publication 7258. Washington, D.C.: US GPO, 1961. 620 pp.

An historical and documentary report of the Geneva Conference which contributed to the successful negotiations of the Partial Test Ban Treaty (LTB).

## 67. US Department of State.

"President Announces Decisions on Nuclear Power Policy." Department of State Bulletin, v. 76, no. 1975 (May 2, 1977). pp 429-433.

President Carter's policy positions on reprocessing, breeder reactors, enriched uranium production and export, legislation, and multilateral negotiations.

## 68. US Energy Research and Development Administration.

Benefit Analysis of Reprocessing and Recycling Light Water Reactor Fuel. (ERDA 76/121) Washington, D.C.: US GPO, 1976. 27 pp.

A description of the Light Water Reactor fuel cycle, and an analysis of the comparative economics of reprocessing and recycling LWR spent fuel vs. a "once-through" cycle. Includes information on uranium availability.

## 69. US General Accounting Office.

Allocation of Uranium Enrichment Services to Fuel Foreign and Domestic Nuclear Reactors. (Report no. ID-75-45) Washington, D.C.: US GPO, March 4, 1975. 28 pp.

Analyzes US enrichment capacity at the end of 1974 versus projected (contracted) demand for U308, and finds a supply shortage.

## GOVERNMENT DOCUMENTS

1. Introduction; 2. AEC Enrichment Capacity Insufficient to Meet Demands; 3. AEC Allocation of Enrichment Service Contracts; 4. Foreign and Domestic Policy Issues.

## 70. US General Accounting Office.

Assessment of US and International Controls over the Peaceful Uses of Nuclear Energy. (Report to the Congress by the Comptroller General No. ID-76-60.) Washington, D.C.: US GPO, 1976. 131 pp.

Discusses various types of control that the US has over exported nuclear material, and examines the roles and adequacy of several agencies, including ERDA, NRC, and the IAEA. Concludes with an examination of potential future policy options.

(Ch 1) Peaceful Nuclear Cooperation: Benefits and Risks; (Ch 2) Agreements for Cooperation: Framework for the US Peaceful Nuclear Program; (Ch 3) International Nuclear Safeguards; (Ch 4) US Reliance on International Safeguards; (Ch 5) US Nuclear Export and Retransfer Controls; (Ch 6) Physical Security of Nuclear Materials; (Ch 7) Future US Strategy and Options; (Ch 8) Scope of Review.

## 71. US General Accounting Office.

Role of the International Atomic Energy Agency in Safeguarding Nuclear Material. (Report to the House Committee on International Relations, no. ID- 75-65) Washington, D.C.: US GPO, July 3, 1975.

Analyzes IAEA safeguards, finds them inadequate at several levels: 1) physical protection; 2) technical sophistication; 3) penalties and sanctions.

1. Introduction; 2) Development and Current Status of Safeguards; 3) Effectiveness of IAEA Safeguards; 4) Safeguards-Related Issues; 5) Conclusions and Matters for Consideration by the Committee.

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## 72. US Office of Technology Assessment.

Nuclear Proliferation and Safeguards. Volume 1: New York: Praeger Publishers, 1977. 273 pp. Volume 2 (Appendices): Washington, D.C.: US GPO, 1977.

This OTA study is extremely comprehensive, covering all aspects of the problem. It is organized in an easily used format, comprising two volumes (Volume 2 is in two parts). The first volume contains the text itself, with Chapter 2 serving as an Executive Summary and cross-reference to the rest of the work. The second volume consists of appendices of documentation for the first volume, as well as additional information on related topics.

For an evaluation, see also the Hearings on this document before the Subcommittee on Energy, Nuclear Proliferation, and Federal Services of the Senate Committee on Governmental Services (above).

Volume I:

(Ch 1) Introduction; (Ch 2) Issues, Findings, and Executive Summary; (Ch 3) Policy Implications; (Ch 4) Incentives and Disincentives for Proliferation; (Ch 5) The Non-State Adversary; (Ch 6) Nuclear Weapons; (Ch 7) Sources of Nuclear Material; (Ch 8) Control of Proliferation; (Ch 9) Comparison of Routes to Nuclear Material; (Ch 10) The International Nuclear Industry;

Volume II - Part One:

(Ch 1) Incentives/Disincentives; (Ch 2) Peaceful Nuclear Explosions; (Ch 3) Non-State Adversaries; (Ch 4) International Nuclear Industry; (Ch 5) Technical Descriptions of Fuel Cycle Facilities and Evaluation of Diversion Potential;

Volume II - Part Two:

(Ch 6) Dedicated Facilities; (Ch 7) Purchase and Theft; (Ch 8) Description of Safeguards Technology and Procedures; (Ch 9) International Controls.

## PAPERS, OTHER SOURCES

## 1. Alley, Roderick.

"Nuclear-Weapon-Free Zones: The South Pacific Proposal." (Occasional Paper No. 14.) Muscatine, Iowa: The Stanley Foundation, 1977. pp 27-53.

Outlines the origins, arguments, and recent developments concerning the South Pacific nuclear-free zone question.

## 2. Baker, Stephen J.

Commercial Nuclear Power and Nuclear Proliferation.  
(Peace Studies Program Occasional Paper No. 5.) Ithaca, N.Y.: Cornell University, May 1975. 66 pp.

Surveys the development of the international nuclear energy market, with particular reference to the United States' past actions, the interplay between the commercial promotion of nuclear energy and the proliferation of nuclear weapons, tradeoffs between domestic and foreign policies, and the implications of domestic energy policy choices for future nuclear weapons proliferation.

## 3. Binder, David.

"Nuclear Conference Failed on Restraints." New York Times, (3 October 1977).

Report of meeting between Deputy Secretary of State Joseph S. Nye and Congressional staff members indicating that the September session of the Suppliers' Conference failed to formalize additional restraints on future exports of sensitive nuclear technology.

## 4. Brookhaven National Laboratory. Technical Support Organization.

"Preliminary Safeguards Analysis of Denatured Thorium Fuel Cycles." (Prepared for the Division of Nuclear Research and Applications, and the Division of Safeguards and Security, US ERDA) Upton, N.Y. 1976.

## PAPERS, OTHER SOURCES

Presents a preliminary response to the denaturing question, and outlines future investigation needed. Concludes that the absolute safeguards effectiveness of the denatured thorium fuel cycle is subject to serious question.

## 5. Center for Defense Information.

"Banning Nuclear Testing: Salt II?" (A Center Research Study.) 1973. 14 pp.

Explores the reasons for testing, the progress of means to detect underground explosions, and suggests what can be done.

## 6. Cook, Don.

"Stiffer Curbs OK'd in Nuclear Diversion." Los Angeles Times, (30 September 1977). pp 10-11.

Review of an IAEA report which evaluated the workings and effectiveness of the safeguards inspection system.

## 7. Cornell University Program on Science, Technology, and Society.

"An Analysis of the Economic Feasibility, Technical Significance, and Time Scale for Application of Peaceful Nuclear Explosions in the US, With Special Reference to the GURC Report Thereon." (Prepared for US ACDA: AC5A-D023.) Ithaca, New York: Cornell University, 1975. 45 pp.

Panel report analyzing the properties of nuclear explosives as they relate to peaceful uses. Details some possible applications of PNE's (oil, copper, and gas recovery; storage cavities). Reviews history of US Project Plowshare PNE program. Comments on the Gulf Universities Research Consortium Report (see reference below).

## PAPERS, OTHER SOURCES

## 8. Deonigi, D.E., et. al.

"Some Alternatives to the Mixed Oxide Fuel Cycle." (BNWL-2197, prepared for the US Nuclear Regulatory Commission.) Richland, Washington: Battelle Pacific Northwest Labs, 1977. 49 pp.

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